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(54) DRUG COMPOSITIONS EXHIBITING THROMBOPOIETIN AGONISM

(57) Pharmaceutical compositions containing as an active ingredient compounds of the general formula (I), prodrugs of the same, pharmaceutically acceptable salts of both, or solvates of them and exhibiting thrombopoietin receptor agonism:

$$X^1-Y^1-Z^1$$
 (I)

wherein X^1 is optionally substituted heteroaryl or the like; Y^1 is -NRACO-(CH₂)₀₋₂- or the like (wherein RA is a hydrogen or the like); Z^1 is optionally substituted arylene or the like; and A^1 is a ring represented by general formula (II) or (III):

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EP 1 207 155 A1

Description

Technical Field

⁵ [0001] The present invention relates to pharmaceutical compositions exhibiting thrombopoietin receptor agonism.

Background Art

[0002] Thrombopoietin, polypeptide cytokine composed of 332 amino acids, activates the production of platelets by stimulating the differentiation and proliferation of megakaryocytes through the receptor and is expected as a medicine for hemopathy accompanied with the unusual number of platelets, for example, thrombocytopenia and the like. DNA sequences encoding the thrombopoietin receptor have been described in Proc. Natl. Acad. Sci., 89:5640-5644 (1992). Low molecular peptides having an affinity for the thrombopoietin receptor is also known (JP98/72492A, and WO96/40750), but these peptide derivatives are not generally practical for oral administration.

[0003] 1,4-Benzodiazepine derivatives as a low molecule compound having an affinity to the thrombopoietin receptor is described in JP99/1477A.

[0004] The compounds having a similar structure of the present invention compound are described in JP92/99770A, Chem. Pharm. Bull., 1982, 30, 3580, JP94/172339A (EP512899), JP90/308240A, WO97/32863, Arzneim. Forsch/Drug Res., 1998, 48, 651, JP95/173143A, JP93/85551A, JP85/443A, JP96/245602A JP96/157462A, JP96/143556A and the like, but the affinity for thrombopoietin receptor is not described therein.

Disclosure of Invention

[0005] The object of the present invention is to prepare pharmaceutical compositions exhibiting thrombopoietin receptor agonism and provide orally administrable platelet production modifiers.

[0006] In the above situation, the inventors of the present invention have found that the following compounds exhibit strong thrombopoietin receptor agonism.

[0007] The present invention relates to:

30 I) A pharmaceutical composition exhibiting thrombopoietin agonism which contains as an active ingredient a compound of the formula (I):

$$X^1-Y^1-Z^1$$
 (I)

wherein X¹ is optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, optionally substituted heteroarylalkyl, or optionally substituted non-aromatic heterocyclic group;

Y¹ is -NR^CO-(CH₂)₀₋₂-, -NR^CO-(CH₂)₀₋₂-W-, -NRACO-CH=CH-, -W-(CH₂)₁₋₅-NR^CO-(CH₂)₀₋₂-, -CONR^-(CH₂)₀₋₂-, -CONR^-(CH₂)₀₋₅-, -CONR^-(CH₂)₀₋₅-, -CONR^-(CH₂)₀₋₅-, -NR^-(CH₂)₀₋₅-, -NR^-(CH₂)

wherein R^A is each independently a hydrogen atom, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heteroaryl, or optionally substituted heteroarylalkyl, R^F is a hydrogen atom or optionally substituted aryl, W is an oxygen atom or a sulfur atom;

Z¹ is optionally substituted arylene, optionally substituted heteroarylene, optionally substituted non-aromatic heterocycle-diyl, or optionally substituted cycloalkyl-diyl;

A¹ is a ring represented by the formula:

$$R^1$$
 Q
 R^3
 R^4
 R^3
 R^4
 R^3
 R^4
 R^3
 R^4
 R^3
 R^4
 R^3
 R^4
 R^5

wherein R^1 and R^2 are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R^3 and R^4 are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R^5 is a hydrogen atom or lower alkyl; Q and V are each independently -O-, -S-, -NR^B- (wherein R^B is a hydrogen atom or lower alkyl), or -CH₂-; m is 1, 2, or 3;

a broken line (---) represents the presence or absence of a bond,

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its prodrug, or their pharmaceutically-acceptable salt, or solvate thereof. In more detail, the invention relates to the following II) to XX).

II) A pharmaceutical composition exhibiting thrombopoietin agonism which contains a compound of I), wherein X¹ is optionally substituted 5-member heteroaryl or a group represented by the formula:

wherein E is - $(CH_2)_{1,3^-}$, -O- CH_{2^-} , or -S- CH_{2^-} ; R^6 and R^7 are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl.

Preferred is a pharmaceutical composition exhibiting thrombopoietin agonism which contains a compound of I), wherein X¹ is phenyl optionally substituted with one or more group(s) selected from lower alkyl, lower alkyloxy, lower alkylthio, arylazo, aralkyloxy, aryl, halo(lower)alkyl, halogen, and hydroxy.

III) A pharmaceutical composition exhibiting thrombopoietin agonism which contains a compound of I), wherein X^1 is a group represented by the formula:

wherein E is $-(CH_2)_{1-3}$ -, $-O-CH_2$ -, or $-S-CH_2$ -; R^6 and R^7 are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl; R^8 is a hydrogen atom or lower alkyl.

IV) A pharmaceutical composition of any one of I) to III), wherein Y1 is - NHCO-, -CONH-, -NHCH2-, or -NHSO2-.

V) A pharmaceutical composition of any one of I) to IV), wherein Z¹ is 1,4-phenylene.

VI) A pharmaceutical composition of any one of I) to V), wherein A1 is a ring represented by the formula:

wherein R⁸ is a hydrogen atom or lower alkyl; M is -S-, -O-, -N(R^c)-, or -CH₂- (wherein R^c is a hydrogen atom

or lower alkyl); T is an oxygen atom or a sulfur atom.

A pharmaceutical composition exhibiting thrombopoietin agonism of any one of I) to V), wherein A^1 is a ring represented by the formula:

NH S NH ONH HN NH

is preferred.

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- VII) A pharmaceutical composition of any one of I) to VI), wherein the broken line represents the presence of a bond.
 - VIII) A pharmaceutical composition exhibiting thrombopoietin agonism of any one of I) to VII), which is for treating or preventing hemopathy.
- 30 IX) A pharmaceutical composition exhibiting thrombopoietin agonism of any one of I) to VII), which is a platelet production modifier.
 - X) Use of a compound of any one of I) to VII), for preparation of a pharmaceutical composition for treating hemopathy.
 - XI) A method for treating hemopathy of a mammal, including a human, which comprises administration to said mammal of a compound of any one of I) to VII) in a pharmaceutically effective amount.
 - XII) A compound represented by the formula (II)

$$X^2 - Y^2 - Z^2$$
 (II)

wherein X² is optionally substituted 5-member heteroaryl or a group represented by the formula:

wherein E is $-(CH_2)_{1,3^+}$, $-O-CH_2^-$, or $-S-CH_2^-$; R^6 and R^7 are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl;

wherein R^G is each independently a hydrogen atom or optionally substituted lower alkyl, R^F is a hydrogen atom or optionally substituted aryl, W is an oxygen atom or a sulfur atom;

 Z^2 is optionally substituted phenylene, optionally substituted 2,5-pyridinediyl, optionally substituted 2,5-thiophene-diyl, or optionally substituted 2,5-furan-diyl;

A² is a ring represented by the formula:

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 $R^1 \longrightarrow R^2$

$$R^{1}$$
 R^{2}
 R^{3}
 R^{4}
 R^{3}
 R^{4}
 R^{3}
 R^{4}
 R^{3}
 R^{4}
 R^{3}
 R^{4}
 R^{5}
 R^{6}
 R^{6}
 R^{6}
 R^{7}
 R^{7

wherein R^1 and R^2 are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R^3 and R^4 are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R^5 is a hydrogen atom or lower alkyl; Q and V are each independently -O-, -S-, -NR^B- (wherein R^B is a hydrogen atom or lower alkyl), or -CH₂-; m is 1, 2, or 3;

a broken line (---) represents the presence or absence of a bond, provided that X² is not oxazole,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

XIII) A compound of XII), wherein X² is a group represented by the formula:

wherein E is -(CH₂)₁₋₃-, -O-CH₂-, or -S-CH₂-; R⁶ and R⁷ are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl; R⁸ is a hydrogen atom or lower alkyl,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

XIV) A compound of XII), wherein X2 is a group represented by the formula:

wherein E is as defined in XII;

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R⁹ is a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, or optionally substituted aminocarbonyl;

R¹⁰ and R¹¹ are each independently a hydrogen atom, halogen, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, nitro, or optionally substituted amino,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

XV) A compound of any one of XII) to XIV), wherein Y^2 is -NHCO-, -CONH-, - NHCH₂-, or -NHSO₂-, its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

XVI) A compound of any one of XII) to XIV), wherein Z² is 1,4-phenylene, its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

XVII) A compound of any one of XII) to XVI), wherein A² is a ring represented by the formula:

N-R⁸

N-R

wherein R^8 is a hydrogen atom or lower alkyl; M is -S-, -O-, -N(R^c)-, or -CH₂- (wherein R^c is a hydrogen atom or lower alkyl); T is an oxygen atom or a sulfur atom,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

XVIII) A compound of any one of XII) to XVII), wherein the broken line represents the presence of a bond, its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

XIX) A compound represented by the formula III-A:

wherein, R^9 is a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, or optionally substituted aminocarbonyl;

R¹⁰ and R¹¹ are each independently a hydrogen atom, halogen, carboxy, lower alkyloxycarbonyl, optionally substituted amino; Y³ is -NHCO- or -CONH-;

A³ is a ring represented by the formula:

wherein R^8 is a hydrogen atom or lower alkyl; M is -S-, -O-, -N(R^c)-, or -CH₂- (wherein R^c is a hydrogen atom or lower alkyl); T is an oxygen atom or a sulfur atom,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

XX) A compound represented by the formula III-B:

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$$R^{10}$$

$$S$$

$$V^{3}$$

$$A^{3}$$

$$A^{3}$$

$$A^{3}$$

$$A^{3}$$

wherein R9, R10, R11, Y3, and A3 ring are as defined in XIX,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

XXI) A pharmaceutical composition containing a compound of any one of XII) to XX) as an active ingredient.

XXII) A pharmaceutical composition which contains as an active ingredient a compound of any one of XII) to XX), which is for exhibiting for thrombopoietin agonism.

XXIII) A pharmaceutical composition containing as the active ingredient a compound of any one of XII) to XX), which is a platelet production modifier

XXIV) A platelet production modifier which contains as the active ingredient a compound of any one of XII) to XX).

XXV) Use of a compound of any one of XII) to XX) for preparation of a pharmaceutical composition for treating hemopathy.

XXVI) A method for treating hemopathy of a mammal, including a human, which comprises administration to said mammal of a compound of any one of XII) to XX) in a pharmaceutically effective amount.

[0008] In the present specification, the term "halogen" means fluoro, chloro, bromo, and iodo.

[0009] In the present specification, the term "lower alkyl" employed alone or in combination with other terms means a straight- or branched chain monovalent hydrocarbon group having 1 to 8 carbon atom(s). Examples of alkyl include methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, n-pentyl, isopentyl, neo-pentyl, n-hexyl, isohexyl; n-heptyl, n-octyl and the like. C1 to C6 alkyl is preferred. C1 to C3 alkyl is more preferred.

[0010] The term "alkenyl" in the present specification means a straight- or branched chain monovalent hydrocarbon group having 2 to 8 carbon atoms and at least one double bond. Examples of the alkenyl include vinyl, allyl, 1-propenyl, 2-propenyl, crotonyl, isopentenyl, a variety of butenyl isomers and the like. C2 to C6 alkenyl is preferred. C2 to C4 alkenyl is more preferred.

The term "lower alkynyl" used in the present specification means a straight or branched chain monovalent hydrocarbon group having 2 to 8 carbon atoms and at least one triple bond. The alkynyl may contain (a) double bond(s). Examples of the alkynyl include ethynyl, 2-propynyl, 6-heptynyl, 7-octynyl and the like.

In the present specification, the term "cycloalkyl" employed alone or in combination with other terms means cycloalkyl group having 3 to 8 carbon atoms. Examples of cycloalkyl group include cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloh

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[0011] In the present specification, the term "aryl" employed alone or in combination with other terms means monocyclic or condensed ring aromatic hydrocarbons. Examples of aryl include phenyl, 1-naphtyl, 2-naphtyl, anthryl, and the like.

[0012] The term "aralkyl" herein used means the above mentioned "lower alkyl" substituted with the above mentioned "aryl" at any possible position. Examples of the aralkyl are benzyl, phenethyl (e.g., 2-phenethyl and the like), phenyl-propyl (e.g., 3-phenyl-propyl and the like), naphthylmethyl (e.g., 1-naphthylmethyl and 2-naphthylmethyl and the like), anthrylmethyl (e.g., 9-anthrylmethyl and the like), and the like. Benzyl and phenylethy are preferred.

[0013] In the present specification, the term "heteroaryl" employed alone or in combination with other terms means a 5 to 6 membered aromatic heterocyclic group which contains one or more hetero atoms selected from the group consisting of oxygen, sulfur, and nitrogen atoms in the ring and may be fused with cycloalkyl, aryl, non-aromatic heterocyclic group, and other heteroaryl at any possible position. Examples of the heteroaryl are pyrrolyl (e.g., 1-pyrrolyl, 2-pyrrolyl, 3-pyrrolyl), furyl (e.g., 2-furyl, 3-furyl), thienyl (e.g., 2-thienyl 3-thienyl), imidazolyl (e.g., 2- imidazolyl, 4imidazolyl), pyrazolyl (e.g., 1-pyrazolyl, 3-pyrazolyl), isothiazolyl (e.g., 3-isothiazolyl), isoxazolyl (e.g., 3-isoxazolyl), oxazolyl (e.g., 2-oxazolyl), thiazolyl (e.g., 2-thiazolyl), pyridyl (e.g., 2-pyridyl, 3-pyridyl, 4-pyridyl), pyrazinyl (e.g., 2-pyrazinyl), pyrimidinyl (e.g., 2-pyrimidinyl, 4-pyrimidinyl), pyridazinyl (e.g., 3-pyridazinyl), tetrazolyl(e.g., 1H-tetrazolyl), oxadiazolyl (e.g., 1,3,4-oxadiazolyl), thiadiazolyl (e.g., 1,3,4- thiadiazolyl), indolizinyl (e.g., 2-indolizinyl, 6-indolizinyl), isoindolyl (2-isoindolyl), indolyl (e.g., 1-indolyl, 2-indolyl, 3-indolyl), indazolyl (e.g., 3-indazolyl), puriyl (e.g., 8-puriyl), quinolizinyl (e.g., 2-quinolizinyl), isoquinolyl (e.g., 3-isoquinolyl), quinolyl (e.g., 3-quinolyl, 5-quinolyl), phthalazinyl (e.g., 1-phthalazinyl), naphthyridinyl (e.g., 2-naphthyridinyl), quinolanyl (2-quinolanyl), quinazolinyl (e.g., 2-quinazolinyl), cinnolinyl (e.g., 3-cinnolinyl), pteridinyl (e.g., 2- pteridinyl), carbazolyl (e.g., 2-carbazolyl, 4-carbazolyl), phenanthridinyl (e.g., 2-phenanthridinyl, 3-phenanthridinyl), acridinyl (e.g., 1-acridinyl, 2-acridinyl), dibenzofuranyl (e. g., 1-dibenzofuranyl, 2-dibenzofuranyl), benzimidazolyl (e.g., 2-benzimidazolyl), benzisoxazolyl (e.g., 3-benzisoxazolyl), benzoxazolyl (e.g., 2-benzoxazolyl), benzoxadiazolyl (e.g., 4-benzoxadiazolyl), benzisothiazolyl (e.g., 3-benzisothiazolyl), benzothiazolyl (e.g., 2-benzothiazolyl), benzofuryl (e.g., 3-benzofuryl), benzothienyl (e.g., 2-benzothienyl) and the like.

Preferable are thiazolyl, isoxazolyl, isothiazolyl, thienyl, furyl, pyrrolyl, imidazolyl, carbazolyl benzothiazolyl, pyridyl, and pyrazolyl as "heteroaryl" for X¹.

[0014] In the present specification, the term "5-membered heteroaryl" measns a 5 membered aromatic heterocyclic group which contains one or more hetero atoms selected from the group consisting of oxygen, sulfur, and nitrogen atoms. Examples of the 5-membered heteroaryl are thienyl, furyl, pyrrolyl, imidazolyl, pyrazolyl, isothiazolyl, thiazolyl and the like. Preferable is thiazolyl,

[0015] The term "heteroarylalkyl" herein used means the above-mentioned "lower alkyl" substituted with the above-mentioned "heteroaryl" at any possible position. Examples of the heteroarylalkyl are thiazolylmethyl (e.g., 2-thiazolylmethyl), thiazolylethyl (e.g., 2-thiazolyl-2-ethyl), imidazolylmethyl (e.g., 4-imidazolylmethyl), pyridylmethyl, pyridylmethyl, 3-pyridylmethyl, 4-pyridylmethyl), pyridylethyl (e.g., 2-pyridylethyl) and the like.

[0016] In the present specification, the term "non-aromatic heterocyclic group" employed alone or in combination with other terms means a 5 to 7 membered non-aromatic ring which contains one or more hetero atoms selected from the group consisting of oxygen, sulfur, and nitrogen atoms in the ring and the 5 to 7 membered non-aromatic ring may be condensed with two or more rings selected from the group consisting of cycloalkyl, aryl, heteroaryl, and the 5 to 7 membered non-aromatic ring. Examples of the non-aromatic heterocyclic group are pyrrolidinyl (e.g., 1-pyrrolidinyl, 2-pyrrolidinyl), pyrrolinyl (e.g., 3-pyrrolinyl), imidazolidinyl (e.g., 2-imidazolidinyl), imidazolinyl (e.g., imidazolinyl), pyrazolidinyl (e.g., 1-pyrazolidinyl, 2-pyrazolidinyl), pyrazolinyl (e.g., pyrazolinyl), piperidinyl (e.g., piperidino, 2-piperidinyl), piperazinyl (e.g., 1-piperazinyl), indolynyl (e.g., 1-indolynyl), isoindolinyl (e.g., isoindolinyl), morpholinyl (e.g., morpholino, 3-morpholinyl), indenothiazole (e.g., 8H-indeno[1,2-d]thiazole), dihydronaphtothiazole (4,5-dihydronaphto [1,2-d]thiazole), dihydrothiazabenzoazlene (e.g., 5,6-dihydro-4H-3-thia-1-aza-benzo[e]azulene), chromenothiazole (e.g., 4H-chromeno[4,3-d]thiazole), and the like.

[0017] The term "arylene" herein used means a divalent group of the above-mentioned "aryl". Examples of the arylene are phenylene, naphthylene, and the like. Mentioned in more detail, it is examplified by 1,2-phenylene, 1,3-phenylene, 1,4-phenylene, and the like. Preferable is 1,4-phenylene.

[0018] The term "heteroarylene" herein used means a divalent group of the above-mentioned "heteroaryl". Examples of the heteroarylene are thionphene-diyl, furan-diyl, pyridine-diyl, and the like. Mentioned in more detail, it is exemplified by 2,5-thionphene-diyl, 2,5-furan-diyl, 2,5-pyridine-diyl, and the like.

[0019] The term "non-aromatic heterocycle-diyl" herein used means a divalent group of an above-mentioned "non-aromatic heterocycle group". Examples of the non-aromatic heterocycle-diyl are pyrrolidine-diyl, piperidine-diyl, pyrazine-diyl and the like

[0020] The term "cycloalkyl-diyl" herein used means a divalent group of the above-mentioned "cycloalkyl". Examples of the cycloalkyl-diyl are cylopentyl-diyl, cyclohexyl-diyl and the like.

[0021] The term "lower alkyloxycarbonyl" herein used are methyloxycarbonyl, ethyloxycarbonyl, n-propyloxycarbo-

nyl, isopropyloxycarbonyl, n-butyloxycarbonyl, t-butyloxycarbonyl, n-pentyloxycarbonyl and the like.

[0022] In the present specification, the term "acyl" employed alone or in combination with other terms means alkyl-carbonyl in which alkyl group is the above-mentioned "lower alkyl" and arylcarbonyl in which aryl group is the above-mentioned "aryl". Examples of the acyl are acetyl, propyonyl, benzoyl, and the like. "Lower alkyl" and "aryl" may be substituted respectively with substituents mentioned below.

[0023] The term "lower alkyloxy" herein used are methyloxy, ethyloxy, n-propyloxy, i-propyloxy, n-butyloxy, i-butyloxy, sec-butyloxy, tert-butyloxy, and the like, Methyloxy, ethyloxy, n-propyloxy, i-propyloxy and n-butyloxy are preferred.

[0024] The term "lower alkylthio" herein used are methylthio, ethylthio, and the like.

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[0025] In the present specification, the term "halo(lower)alkyl" employed alone or in combination with other terms means the above-mentioned "lower alkyl" which is substituted with the above mentioned "halogen" at 1 to 8 positions, preferably, at 1 to 5. Examples of the halo(lower)alkyl are trifluoromethyl, trichloromethyl, difluoroethyl, trifluoroethyl, dichloroethyl, and the like. Preferable is trifluoromethyl.

[0026] Examples of the term "acyloxy" herein used are acetyloxy, propionyloxy, benzoyloxy and the like.

[0027] In the present specification, the term "optionally substituted amino" employed alone or in combination with other terms includes amino substituted with one or two of the above mentioned "lower alkyl", "aralkyl", "heteroarylalkyl" or "acyl". Examples of the optionally substituted amino are amino, methylamino, dimethylamino, ethylmethylamino, dethylamino, benzylamino, benzoylamino and the like. Preferable are amino, methylamino, dimethylamino, ethylmethylamino, diethylamino and acetylamino.

[0028] Examples of the term "optionally substituted aminocarbonyl" herein used are aminocarbonyl, methylaminocarbonyl, dimethylaminocarbonyl, diethylaminocarbonyl and the like. Preferable are aminocarbonyl, methylaminocarbonyl, and dimethylaminocarbonyl.

[0029] The substituents of "optionally substituted lower alkyl" are cycloalkyl, lower alkenyl, lower alkyliden, hydroxy, lower alkyloxy, mercapto, lower alkylthio, halogen, nitro, cyano, carboxy, lower alkyloxycarbonyl, halo(lower)alkyl, halo (lower)alkyloxy, substituted or unsubstituted amino, substituted or unsubstituted aminocarbonyl, acyl, acyloxy, optionally substituted non-aromatic heterocyclic group, aryloxy (e.g., phenyloxy), aralkyloxy (e.g., benzyloxy), lower alkylsulfonyl, guanidino, azo group, optionally substituted ureide, =N-O- (acyl) and the like. These substituents are able to locate at one or more of any possible positions.

[0030] Preferable are lower alkyloxycarbonyl, ethyliden, or =N-O-COCH₃, as substituents of "optionally substituted lower alkyl" for R⁶, R⁷ and R⁹.

[0031] Preferable are unsubstituted alkyl, as "optionally substituted lower alkyl" for R^A. Lower alkyloxycarbonyl as substituents is preferred.

[0032] The substituents of "optionally substituted arylene", "optionally substituted phenylene", "optionally substituted heteroarylene", "optionally substituted 2,5-pyridine-diyl", "optionally substituted 2,5-thiophene-diyl", "optionally substituted 2,5-furan-diyl", "optionally substituted non-aromatic heterocycle-diyl", "optionally substituted cycloalkyl-diyl", "optionally substituted aryl", "optionally substituted thienyl", "optionally substituted phenyl", "optionally substituted heteroaryl", "optionally substituted 5-membered heteroaryl", "optionally substituted aralkyl", "optionally substituted heteroarylalkyl", "optionally substituted non-aromatic heterocyclic group", and "optionally substituted ureide" herein used are optionally substituted lower alkyl, cycloalkyl, lower alkenyl, lower alkynyl, hydroxy, lower alkyloxy, aralkyloxy, mercapto, lower alkylthio, halogen, nitro, cyano, carboxy, lower alkyloxycarbonyl, halo(lower)alkyl, halo(lower)alkyloxy, unsubstituted or substituted amino, unsubstituted or substituted aminocarbonyl, acyl, acyloxy, optionally substituted aryl, optionally. Substituted heteroaryl, optionally substituted non-aromatic heterocyclic group, optionally substituted aralkyl, lower alkylsulfonyl, guanidino, azo group, -N=N-(optionally substituted phenyl) or optionally substituted and the like. These substituents are able to locate at one or more of any possible positions.

[0033] Preferable are unsubstituted groups as substituents of "optionally substituted arylene", "optionally substituted phenylene", "optionally substituted heteroarylene", "optionally substituted 2,5-pyridine-diyl", "optionally substituted 2,5-thiophene-diyl", "optionally substituted 2,5-furandiyl", "optionally substituted non-aromatic heterocycle-diyl", "optionally substituted cycloalkyl-diyl". Halogen, nitro, cyano, lower alkyl, lower alkyloxy as substituents are preferred.

[0034] The examples of substituents of "optionally substituted aryl" and "optionally substituted aralkyl" for X¹ are lower alkyl, hydroxy lower alkyl, hydroxy, lower alkyloxy, lower alkylthio, halogen, nitro, cyano, carboxy, lower halo (lower)alkyl, halo(lower)alkyloxy, aralkyloxy, unsubstituted or substituted amino, unsubstituted or substituted aminocarbonyl, aryl, heteroaryl, non-aromatic heterocyclic group, arylazo (e.g., phenylazo), and the like. Preferable substituents are lower alkyl, hydroxy, lower alkyloxy, lower alkylthio, halogen, halo(lower)alkyl, halo(lower)alkyloxy, aralkyloxy, -N=N-(phenyl), alkylendioxy, and the like.

[0035] The examples of "optionally substituted aryl" for X¹ are phenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, 3,4-dimethylphenyl, 4-ethylphenyl, 4-t-buylphenyl, 4-n-buylphenyl, 4-n-buylphenyl, 4-n-buylphenyl, 4-n-buylphenyl, 4-n-buylphenyl, 4-n-buylphenyl, 4-n-buylphenyl, 4-n-buylphenyl, 4-methylphenyl, 4-fluorophenyl, 3,5-dichlorophenyl, 4-iodophenyl, 4-trif-luoromethylphenyl, 4-methylthiophenyl, 4-phenylmethyloxyphenyl, 4-phenylphenyl, 4-phenylphenyl, 2-naphtyl, benzodioxoryl (e.g., 1,3-benzodioxoryl), and the like..

[0036] The substituents of "optionally substituted thienyl" and "optionally substituted phenyl" for R⁶ and R⁷ are lower alkyl, lower alkyl substituted with unsubstituted or substituted amino, lower alkenyl, lower alkynyl, hydroxy, lower alkyloxy, mercapto, lower alkylthio, halogen, nitro, cyano, carboxy, lower alkyloxycarbonyl, halo(lower)alkyl, halo(lower)alkyloxy, unsubstituted or substituted amino, unsubstituted or substituted aminocarbonyl, acyl, formyl, acyloxy, optionally substituted phenyl, aryl (e.g., phenyl), heteroaryl (imidazolyl), non-aromatic heterocyclic group (e.g., morpholino, piperazinyl), aralkyl, arylazo, and the like. Preferable are lower alkyl, lower alkyloxy, halogen, nitro, carboxy, lower alkyloxycarbonyl, halo(lower)alkyl, halo(lower)alkyloxy, unsubstituted or substituted amino, unsubstituted or substituted amino, aryl, arylazo and the like,

[0037] The examples of "optionally substituted phenyl" for R⁶ and R⁷ are phenyl, 3-methylphenyl, 4-methylphenyl, 4-t-buylphenyl, 4-n-pentyllphenyl, 3-methyloxyphenyl, 4-methyloxyphenyl, 4-carboxyphenyl, 4-methyloxycarbonylphenyl, 4-ethyloxycarbonylphenyl, 4-isopropyloxycarbonyl, 4-n-butyloxycarbonyl, 4-t-butyloxycarbonyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 2,4-difluorophenyl, 3,4-difluorophenyl, 2,4,5-trifluorophenyl, 2,3,4,5,6-pentafluorophenyl, 4-chlorophenyl, 2,4-dichlorophenyl, 3,4-dichlorophenyl, 3,5-dichlorophenyl, 3-bromophenyl, 4-bromophenyl, 4-iodophenyl, 3-fuluro-4-methyloxyphenyl, 3-trifluoromethylphenyl, 4-trifluoromethylphenyl, 4-trifluoromethylphenyl, 4-acetylaminophenyl, 4-aminocarbonylphenyl, 4-N-methylaminocarbonylphenyl, 4-N,N-dimethylaminocarbonyl, 2-nitrophenyl, 4-nitrophenyl, 4-phenylphenyl, 4-phenyazophenyl, and the like.

[0038] Preferable are lower alkyl, cycloalkyl, lower alkenyl, lower alkynyl, hydroxy, lower alkyloxy, aralkyloxy, mercapto, lower alkylthio, halogen, nitro, cyano, carboxy, lower alkyloxycarbonyl, halo(lower)alkyl, halo(lower)alkyloxy, unsubstituted or substituted amino, unsubstituted or substituted aminocarbonyl, acyl, acyloxy, guanidino, azo group, and the like as substituents of "optionally substituted aryl", "optionally substituted heteroaryl", "optionally substituted aralkyl", and "optionally substituted heteroarylalkyl" for R^A. These substituents are able to locate at one or more of any possible positions.

[0039] Preferable is phenyl as "optionally substituted aryl" for RF.

[0040] The substituents of "optionally substituted hetroaryl", "optionally substituted hetroarylalkyl", "optionally substituted non-aromatic heterocyclic group" for X¹ and the substituents of "optionally substituted 5-membered heteroaryl" for X² are optionally substituted lower alkyl, lower alkyl, lower alkyloxy, nercapto, lower alkylthio, halogen, nitro, cyano, carboxy, lower alkyloxyccarbonyl, halo(lower)alkyl, halo(lower)alkyloxy, substituted or unsubstituted amino, substituted or unsubstituted aminocarbonyl, acyl (e.g., aryloxycarbonyl optionally substituted with halogen, nitro, cyano and the like), acyloxy, optionally substituted phenyl, aryl, optionally substituted heteroaryl (e.g., 2-pyridyl, 3-pyridyl, 3-thienyl, 5-methylpyridine-2-yl, 3-quinolyl, 5-chlorothiophene-2-yl, 5-bromothiophene-2-yl), non-aromatic heterocyclic group, aralkyl, =N-O-(acyl), and the like. Preferable are optionally substituted lower alkyl, lower alkyloxycarbonyl, optionally substitute phenyl, heteroaryl, =N-O-(acyl), and the like.

When hetero atom is nitrogen atom, the nitrogen atom may be substituted with alkyl, oxo and the like.

[0041] In the present specification, the term "hemopathy" means hemopathy accompanied with the unusual number of platelet. For example the hemopathy is thrombocytopenia (after bone marrow transplantation, after chemotherapy, anaplastic anemia, bone marrow dysplasia syndrome, acquired thrombopenia of intractable sudden thrombocy topenic purpura and the like, congenital thrombopenia of thrombopoietin deficiency and the like) and the like.

Brief description of the drawing

[0042]

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Figure 1: The chart shows the stimulation activity of a present invention for the proliferation and differentiation of megakaryocyte precursor cells, by counting megakaryocyte colonies formed from human bone marrow cells.

Figure 2: The chart represents proliferation of the human TPO dependent cells manifesting human TPO receptors by the present invention compound, wherein the x-axis is concentration of the present invention compound, and the y-axis is absorption as an indicator of cell proliferation. White circle is a response of human TPO, and black circle is a response of the compound (B-17).

Figure 3: The chart represents proliferation of the human TPO independent cell manifesting no human TPO receptor by the present invention compound, wherein the x-axis is a concentration of the present invention compound, and the y-axis is absorption as an indicator of cell proliferation. White circle is a response of human TPO, and black circle is a response of the compound (B-17).

Figure 4: The chart represents proliferation of the murine TPO independent cell manifesting murine TPO receptor by the present invention compound, wherein the x-axis is a concentration of the present invention compound, and

the y-axis is absorption as an indicator of cell proliferation. White circle is a response of human TPO, and black circle is a response of the compound (B-17)

Best Mode for Carrying Out the Invention

[0043] Compounds (I) of the invention can be synthesized by the following methods A-C and the similar process. And it is possible to produce the compounds in accordance with the procedure described in WO97/05135 and WO97/39737.

(Method A)

wherein A¹ is as defined above, Z³ is optionally substituted arylene, optionally substituted heteroarylene, optionally substituted non-aromatic heterocyle-diyl, or optionally substituted cycloalkyl-diyl, X³ is optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, or optionally substituted heteroarylalkyl, R¹² is lower alkyl.

(Process 1)

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[0044] Commercial available compound Z¹ (compound (IV)) having lower alkyloxycarbonyl and aldehyde groups as substituents is used as a starting material.

The compound (IV) is also obtained by the following methods 1)-3). 1) A carboxy group of the compound having lower alkyloxycarbonyl and carboxy groups as substituents is treated with ethyl chlorocarbonate to give mixed acid anhydride. 2) A usual reductive reaction (e.g., reductive reaction with sodium borohydride) gives a compound having lower alkyloxycarbonyl and hydroxy groups. 3) A usual oxidative reaction (e.g., Swern oxidation, Dess-Martin Oxidation and the like) obtains compound (IV) having alkyloxycarbonyl and aldehyde groups.

This is the process of obtaining bezyliden derivatives by the reaction of aldehyde derivatives with 2,4-thiazolidine-dione. Compound (IV) is reacted with 2,4-thiazolidine-dione under reflux in the presence of acetic acid and piperidine as a catalyst in a solvent such as benzene, toluene to obtain the desired compound. (Knoevenagel Reaction).

A derived double bond may be reduced by a usual reductive reaction (e.g., hydrogenation) at any appropriate process. In case of a presence of a functional group(s) possibly interfering the reaction, the group(s) can be protected in accordance with a method described in "Protective Groups in Organic Synthesis" (Theodora W. Green (John Wiley & Sons)) and the like, and then deprotected at an appropriate process.

(Process 2)

[0045] This is the conversion of alkyloxy derivatives to carboxylic acid derivatives by the hydrolysis. It can be carried out by usual hydrolysis. For example, compound (V) is reacted in the presence of acetic acid, hydrochloric acid, and the like to give the carboxylic acid derivative (compound (VI)).

(Process 3)

[0046] This process is the reaction of carboxylic acid derivatives (VI) and amine derivatives (VII) to obtain amide derivative (I-A) by an active ester method, an acid chloride method, a mixed acid anhydride method, and the like. This process is performed in a solvent such as tetrahydrofuran, dioxane, dichloromethane, toluene, benzene. An active ester method can be carried out by using 1-hydroxybenzotriazlole, hydroxysuccinimide, dimethylaminopyridine and the like, dicyclohexylcarbodiimide 1-ethyl-3-(dimethylaminopropyl)carbodiimide hydrochloride, and the like as a condensing agent. A acid chloride method can be performed by conversion of a free carboxylic acid with thionyl chloride,

oxalyl chloride as a reagent to an acid chloride. A mixed acid anhydride method can be carried out by the reaction of carboxylic acid with ethyl chloroformate isobutyl chloroformate and the like to obtain acid mix anhydride. Bases such as triethylamine, pyridine may be used in the reaction, if necessary.

Commercial available compound Z¹ (compound (IV)) having lower alkyloxycarbonyl and aldehyde groups as substituents is used as a starting material.

The compound (VII) is commercial available but it is also obtained by means of the following methods. 1) Compound (VII) having two successive rings can be obtained by Suzuki Reaction when X^3 is optionally substituted aryl, optionally substituted aryl, or the like and when above-mentioned substituents are aryl or heteroaryl. 2) Compound (VII') can be given by the following method when X^3 is optionally substituted thiazole.

RD RE Process 1

RD RE Process 2

RD RE Process 2

wherein R^D and R^E are hydrogen atoms, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, or optionally substituted phenyl and the like, Hal is halogen.

(Process 1)

(VIII)

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[0047] This process is halogenation. It can be carried out by a usual halogenation. For example, bromination can be performed by the reaction with bromine in mixed solvent of methanol and chloroform.

(Process 2)

[0048] This is a process of constructing a thiazole ring. For example, the desired thiazole (VII') derivative can be obtained by the reaction with thiourea in a solvent such as methanol.

(Method B)

HOOC
$$-z^3$$
 A^1
Process 1
BocHN $-z^3$
 A^1
 A^1
 A^1
 A^1

$$H_2N$$
— Z^3
 A^1
 X^3 — $COCI$
 (XII)
 $(I-B)$

wherein A1, X3, and Z3 are as defined above, Boc is t-butyloxycarbonyl

(Process 1)

[0049] The present process is the conversion of a carboxy group to an amino group protected with Boc. For example, the desired compound can be obtained by the reaction of the compound (IV) with diphenylphosphoryl azide in a solvent such as dimethylformamide, toluene, ether, dioxane in a presence of t-butanol and a base such as tritehylamine.

. (Process 2)

[0050] The present process is a deprotection of Boc. It can be deprotected in accordance of a method described in Protective Groups in Organic Synthesis, Theodora W Green (John Wiley & Sons) and the like. For example, compound (X) is treated with trifluoroacetic acid to give the desired deprotected compound (XI).

(Process 3)

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[0051] This process may be carried out in the same manner as that described in process 3 of method A.

(Method C)

Haloc
$$-z^3$$
(XIII)
 X^3
 X^3

wherein A1, X3, Z3, and Hal are as defined above

The present process is the treating acid halogenide (XIII) of compound (VI) with ammonium isothiocyanate and the following reaction of the above-mentioned compound (VII) to give the desired compound (I-C).

[0052] A compound represented by the formula (I), wherein Y¹ is not -CONH-, -NHCO-, or -NHC(=S)NHC(=O)-, can be synthesized in the same manner as that described in above mentioned methods A-C. N-alkylation can be carried by a usual alkylation.

When Y¹ is -N(-alkyl)-CO-, Z¹ is optionally substituted thiazole, the said compound is represented by equilibrium as follows.

$$R^{D} \xrightarrow{Alk}_{S} Q^{1} \qquad \qquad A^{1}$$

$$R^{D} \xrightarrow{Alk}_{S} Q^{1} \qquad \qquad A^{1}$$

$$R^{D} \xrightarrow{Alk}_{S} Q^{1} \qquad \qquad A^{1}$$

(A1, Z1, RD, RE, and a broken line are as defined above, Alk is lower alkyl)

[0053] Both a cis isomer and a trans isomer are included when a broken line represents a presence of a bond in the formulae (I), (II), and (III). For example, a cis isomer and a trans isomer can be as follows, when A¹ ring is thiazolidine-dione.

$$X^1-Y^1-Z^1$$

NH

 $X^1-Y^1-Z^1$

NH

NH

wherein X1, Y1, and Z1 are as defined above.

[0054] The term "solvate" includes, for example, solvates with organic solvents, hydrates, and the like.

[0055] The term "compound of the present invention" herein used includes a pharmaceutically acceptable salt or solvate thereof. The salt is exemplified by a salt with alkali metals (e.g., lithium, sodium, potassium, and the like), alkaline earth metals (e.g., magnesium, calcium, and the like), ammonium, organic bases, amino acids, mineral acids (e.g., hydrochloric acid, hydrobromic acid, phosphoric acid, sulfuric acid, and the like), or organic acids (e.g., acetic acid, citric acid, maleic acid, fumaric acid, benzenesulfonic acid, p-toluenesulfonic acid, and the like). These salts can be formed by the usual method. These hydrates can coordinate with any water molecules when hydrates are formed.

[0056] Prodrug is a derivative of the compound having a group which can be decomposed chemically or metabolically, and such prodrug is a compound according to the present invention which becomes pharmaceutically active by means of solvolysis or by placing the compound in vivo under a physiological condition. The method of both selection and manufacture of appropriate prodrug derivatives is described in, for example. Design of Prodrugs, Elsevier, Amsterdam, 1985). For instance, prodrugs such as an ester derivative which is prepared by reacting a basal acid compound with a suitable alcohol, or an amide derivative which is prepared by reacting a basal acid compound with a suitable amine are exemplified when the compounds according to present invention have a carboxylic group. Particularly preferred esters as prodrugs are methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, tert-butyl, morpholinoethyl, and N,N-diethylglycolamido, and the like. For instance, prodrugs such as an acyloxy derivative which is prepared by reacting a basal hydroxy compound with a suitable acyl halide or a suitable acid anhydride, or an amide derivative which is prepared by reacting a basal acid compound with a suitable amine are exemplified when the compounds according to present invention have a hydroxy group. Particularly preferred acyloxy derivatives as prodrugs -OCOC2H5, -OCO(t-Bu), -OCOC₁₅H₃₁, -OCO(m-COONa-Ph), - COCH₂CH₂COONa, -OCOCH(NH₂)CH₃, -OCOCH₂N(CH₃)₂, and the like. For instance, prodrugs such as an amide derivative which is prepared by reacting a basal amino compound with a suitable acid halide or a suitable acid anhydride are exemplified when the compounds according to present invention have an amino group. Particularly preferred amide as prodrugs are -NHCO(CH₂)₂₀CH₃, -NHCOCH(NH₂)CH₃, and the like. [0057] The compound of the present invention is not restricted to any particular isomers but includes all possible

[0058] The present invention compounds show excellent thrombopoietin receptor agonism as described in examples mentioned later, and may be used as a pharmaceutical composition (platelet production modifier) for hemopathy accompanied with the unusual number of platelet, for example thrombocytopenia and the like. And the present compound may be used as a peripheral blood stem cell releasing promoter, a differetiation-inducer of megakaryocytic leukemic cell, a platelet increasing agent of a platelet donor and the like.

[0059] When the compound of the present invention is administered to a person for the treatment of the above diseases, it can be administered orally as powder, granules, tablets, capsules, pilulae, and liquid medicines, or parenterally as injections, suppositories, percutaneous formulations, insufflation, or the like. An effective dose of the compound is formulated by being mixed with appropriate medicinal admixtures such as excipient, binder, penetrant, disintegrators, lubricant, and the like if necessary. Parenteral injections are prepared by sterilizing the compound together with an appropriate carrier.

[0060] The dosage varies with the conditions of the patients, administration route, their age, and body weight. In the case of oral administration, the dosage can generally be between 0. 1 to 100 mg/kg/day, and preferably 1 to 20 mg/

[0061] The following examples are provided to further illustrate the present invention and are not to be constructed as limiting the scope thereof.

35 [0062] Abbreviations described below are used in the following examples.

> Me: methyl Et: ethyl ⁱPr : isopropyl

isomers and racemic modifications.

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ⁿBu: butyl

tBu: tert-butyl iBu: isobutyl

ⁿPen; n-pentyl

nHex: n-hexvl

ⁿOct : n-octyl

Ph: phenyl

Bn: benzyl

Bz: benzoyl

Py: pyridyl

Ac: acetyl

Boc: t-butyloxycarbonyl

DMF: dimethylformamide

シャメチルホルムアミトナ

DMSO: dimethylsulfoxide

Example

Example 1 The preparation of compound (A-1)

5 [0063]

(Process 1)

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[0064] To a solution of methyl terephthaladehydate (25 g) and rhodanine (23.3 g) in toluene, 1M piperizine-toluene solution (6.2 ml) and 1M acetic acid - toluene solution (6.2 ml) were added, and the resulting solution was heated under reflux overnight. After cooling, filtration of the resulting crystal gave compound (2) 34.6 g.
 1H NMR(DMSO-d₆, δ ppm) 13.18 (bs, 1H), 8.07 (d, 2H, J = 8.7 Hz), 7.73 (d, 2H, J = 8.7 Hz), 7.68 (s, 1H), 3.88 (s, 1H).

40 (Process 2)

[0065] A suspension of compound (2) (34.6 g) in dioxane (160 ml), acetic acid (250 ml), and 6N hydrocholoric acid (88 ml) was refluxed at 120°C for 5 h. Water (350 ml) was poured into the reaction mixture and after cooling the filtration of crystal gave compound (3) 30,0 g.

⁴⁵ 1H NMR (DMSO-d₆, δ ppm): 13.95 (bs, 1H), 13.24 (bs, 1H), 8.06 (d, 2H, J = 8.4 Hz), 7.72 (d, 2H, J = 8.4 Hz), 7.69 (s, 1H).

(Process 3)

[0066] A mixture of compound (3)(3 g) in dioxane (20 ml) and thionyl chloride (10 ml) was heated to dissolve at 100°C. Evaporation of the solvent under the reduced pressure gave carboxylic acid chloride. The obtained carboxylic acid chloride was not purified to proceed to a further reaction. To the solution of carboxylic acid chloride (286 mg) and compound (4) (368 mg) synthesized by process 4 in dioxane (50 ml), pyridine (162 µl) was added and the reaction mixture heated at 100°C for 2 h. After cooling and evaporation of the solvent under the reduced pressure, methanol (6 ml) and water (2 ml) were added to the residue and then the resulting crystal was filtrated. Recrystallization from DMF yielded 220 mg of compound (A-1).

 1 H NMR (DMSO-d₆, δ ppm): 13.94 (bs, 1H), 12.93 (s, 1H), 8.23 (d, 2H, J = 8.5 Hz), 8.21 (d, 1H, J = 2.1 Hz), 7.91 - 7.97 (m, 1H), 7.93 (s, 1H), 7.76 (d, 2H, J = 8.5 Hz), 7.73 (s, 1H), 7.70 (s, 1H).

(Process 4)

[0067] To a solution of 3', 4'-dichloroacetophenone (5) (5.67 g) in 10% methanol-chloroform, bromine (1.52 ml) was added, and then the reaction solution was stirred at room temperature until the color of bromine disappeared. After evaporation of the solvent under the reduced pressure, the residue was dissolved in ethanol, thiourea (2.28 g) was added and the mixture was refluxed for 2 hours. After removing the solvent by evaporation under reduced pressure, ethyl acetate - water was added to the residue, then the precipitated crystal was collected by filtration. To the crystal was added ethyl acetate - a saturated sodium carbonate solution, then the ethyl acetate layer was separated, dried, and evaporated to obtain 3.38 g of compound (4). 1 H NMR (CDCl₃ 5 ppm): 7.89 (d, 1H, J = 2.2 Hz), 7.69 (dd, 1H, J = 8.5 Hz, 2.2 Hz), 7.43 (d, 1H, J = 8.2 Hz), 6.74 (s, 1H), 5.06 (bs, 1H).

Compound (A-2) to Compound (A-73) were synthesized in a manner similar to Example 1. Their physical data were shown in Tables 1 to 8.

Table 1

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10 Com Example ¹H-NMR (δ) ppm pound \mathbb{R}^6 R7 No. (DMSO d-6) No. 13.90 (bs, 1H), 12.94 (s, 1H), 8.25 (d, 2H, J = 8.1 Hz), 7.96 (d, 1H, J = 6.915 2 A-2 Η Hz), 7.77 (d, 1H, J = 8.1 Hz), 7.73 (s, 1H), 7.71 (s, 1H), 7.46 (t, 2H, J = 7.5Hz), 7.35 (t, 2H, J = 6.9 Hz) 13.95 (bs, 1H), 12.92 (s, 1H), 8.24 (d, 2H, J = 8.1 Hz), 7.97 - 8.02 (m, 2H), 20 3 A-3 Н 7.76 (d, 1H, J = 8.1 Hz), 7.72 (s, 1H). 7.70 (s, 1H), 7.26 - 7.31 (m, 2H) 13.90 (bs, 1H), 12.95 (s, 1H), 8.24 (d, 2H, J = 8.4 Hz), 7.92 (d, 2H, J = 8.725 4 A-4 Н H_2), 7.80 (s, 1H), 7.76 (d, 2H, J = 8.4[Hz), 7.70 (s, 1H), 7.66 (d, 2H, J = 8.7Hz) 13.90 (bs, 1H), 12.92 (s, 1H), 8.24 (d, 2H, J = 7.8 Hz), 7.98 (d, 2H, J = 8.730 A-5 5 H Hz), 7.79 (s, 1H), 7.76 (d, 2H, J = 8.4Hz), 7.71 (s, 1H), 7.52 (d, 2H, J = 7.813.92 (bs, 1H), 12.89 (s, 1H), 8.25 (d. 2H, J = 8.2 Hz), 7.76 (d, 1H, J = 8.26 Н A-6 Hz), 7.71 (s, 1H), 7.26 (d, 2H, J =8.5 Hz), 2.34 (s, 3H) 13.90 (bs, 1H), 12.95 (s, 1H), 8.26 (d, 2H, J = 8.4 Hz), 8.06 (d, 2H, J = 7.57 H A-7 Hz), 7.92 - 8.12 (m, 8H), 7.47 - 7.52 40 (m, 2H), 7.36 - 7.41 (m, 2H) 13.90 (bs, 1H), 12.88 (s, 1H), 8.24 (d, 2H, J = 8.4 Hz), 7.89 (d, 2H, J = 7.8

8 A-8 H Hz), 7.76 (d, 2H, J = 7.8 Hz), 7.70 (s, 1H), 7.55 (s, 1H), 7.01 (d, 2H, J = 8.4 Hz), 3.80 (s, 3H) 13.90 (bs, 1H), 12.93 (s, 1H), 8.21 (d, NO₂ 2H, J = 8.1 Hz), 7.94 (d, 1H, J = 7.59 H A-9 Hz), 7.79 - 7.83 (m, 2H), 7.75 (d, 2H, J = 8.1 Hz), 7.70 (s, 1H), 7.61 · 7.66 (m, 1H), 7.59 (S, 1H)

13.85 (bs, 1H), 12.30 (s, 1H), 8.21 (d, 2H, J = 8.1 Hz), 7.73 (d, 2H, J = 8.110 A-10 t-Bu H Hz), 7.70 (s, 1H), 6.84 (S, 1H), 1.31 (s, 9H)

Table 2

Example No.	Com pound No.	Re	R ⁷	¹ H-NMR (8) ppm (DMSO d-6)
11	A-11	t-Bu-	н	13.92 (bs, 1H), 12.93 (s, 1H), 8.25 (d, 2H, J=8.5 Hz), 7.87 (d, 2H, J=8.5 Hz), 7.75 (d, 2H, J=8.5 Hz), 7.72 (s, 1H), 7.65 (s, 1H), 7.47 (d, 2H, J=8.5 Hz), 1.32 (s, 9H)
12	A-12	MeOOC -	Н	13.97 (bs, 1H), 13.00 (s, 1H), 8.25 (d, 2H, J=8.5 Hz), 8.08 (dd, 4H, J=19.2 Hz, 8.5 Hz), 7.94 (s, 1H), 7.76 (d, 2H, J=8.5 Hz), 7.72 (s, 1H), 3.81 (s, 3H)
13	A-13	n-Pen-	н	13.88 (bs, 1H), 12.91 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.86 (d, 2H, J = 8.1 Hz), 7.76 (d, 2H, J = 8.1 Hz), 7.76 (d, 2H, J = 8.1 Hz), 2.60 (t, 2H, J = 7.8 Hz), 1.60 (q, 2H, J = 6.6 Hz), 1.27 - 1.36 (m, 2H), 0.87 (t, 3H, J = 6.6 Hz)
14	A-14	O ₂ N-	н	13.90 (bs, 1H), 13.05 (s, 1H), 8.34 (d, 2H, J = 8.5 Hz), 8.24 (t, 4H, J = 8.2 Hz), 8.10 (s, 1H), 7.77 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H)
15	A-15	CI \S	H	13.92 (bs, 1H), 12.99 (s, 1H), 8.23 (d, 2H, J = 8.5 Hz), 7.75 (d, 1H, J = 8.5 Hz), 7.71 (s, 1H), 7.64 (s, 1H), 7.44 (d, 1H, J = 4.1 Hz), 7.14 (d, 1H, J = 4.1 Hz)
16	A-16	(S)		13.90 (bs, 1H), 12.93 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.84 (bs, 1H), 7.76 (d, 2H, J = 8.5 Hz), 7.72 (s, 1H), 7.61 - 7.62 (m, 2H), 7.56 (s, 2H)
17	A-17	€ _N	. Н	13.95 (bs, 1H), 13.00 (s, 1H), 8.65 - 8.67 (m, 1H), 8.26 (d, 2H, J = 8.4 Hz), 8.09 - 8.12 (m, 1H), 7.80 - 8.05 (m, 1H), 8.03 (s, 1H), 7.78 (d, 2H, J = 8.4 Hz), 7.70 (s, 1H), 7.55 (s, 1H), 7.73 (s, 1H), 7.43 - 7.47 (m, 3H)
18	A-18	☆	н	13.01 (s, 1H), 9.22 (d, 1H, J = 2.1 Hz), 8.62 (dd, 1H, J = 5.1 Hz, 1.2 Hz), 8.45 (d, 1H, J = 8.4 Hz), 8.25 (d, 2H, J = 8.1 Hz), 7.98 (s, 1H), 7.77 (d, 2H, J = 8.1 Hz), 7.72 (S, 1H), 7.64 (dd, 1H, J = 8.1 Hz, 5.1 Hz)
19	A-19	N	н	13.15 (s, 1H),8.92 (d, 2H, J=6.3 Hz), 8.56 (s, 1H), 8.40 (d, 2H, J=6.3 Hz), 8.25 (d, 2H, J=8.5 Hz), 7.77 (d, 2H, J=8.5 Hz), 7.72(s, 1H)

Table 3

	~			
Example No.	Com pound No.	R ⁶	. R7	¹H-NMR (8) ppm (DMSO d-6)
20	A-20	F———	Н	13.93 (bs,1H), 12.93 (s, 1H),8.23 (d, 2H, J=8.4 Hz), 7.93 - 8.01 (m, 1H), 7.82 (s, 1H), 7.80 - 7.82 (m, 1H), 7.76 (d, 2H, J=8.4 Hz), 7.71(s, 1H)
21	A-21	Br \S	н	13.97 (bs, 1H), 13.00 (s, 1H),8.23 (d, 2H, J = 8.5 Hz), 7.75 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.64 (s, 1H), 7.41 (d, 1H, J = 3.8 Hz), 7.24 (d, 1H, J = 3.8 Hz)
22	A-22	H ₂ N	н	13.94 (bs, 1H), 12.97 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 8.04 (d, 2H, J = 8.7 Hz), 7.96 (d, 2H, J = 8.7 Hz), 7.99 (bs, 2H), 7.88 (s, 1H), 7.77 (d, 2H, J = 8.5 Hz), 7.73 (s, 1H)
23	A-23	MeHN	н	13.94 (bs, 1H), 12.97 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 8.04 (d, 2H, J = 8.7 Hz), 7.96 (d, 2H, J = 8.7 Hz), 7.99 (bs, 2H), 7.88 (s, 1H), 7.77 (d, 2H, J = 8.5 Hz), 7.73 (s, 1H), 2.81 (d, 3H, J = 4.2 Hz)
24	A-24	Me ₂ N	Н	14.01 (bs, 1H), 12.94 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 8.01 (d, 2H, J = 8.2 Hz), 7.82 (s, 1H), 7.77 (d, 2H, J = 8.5 Hz), 7.72 (s, 1H), 7.49 (d, 2H, J = 8.2 Hz), 2.98 (s, 6H)
25	A-25	I-Pr-O	Н	13.90 (bs, 1H), 13.01 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 8.01 - 8.12 (m, 4H), 7.93 (s, 1H), 7.76 (d, 2H, J = 8.5 Hz), 7.72 (s, 1H), 5.16 (quint, 1H, J = 6.0 Hz), 1.35 (d, 6H, J = 6.0 Hz)
26	A-26	n-Bu-O	н	13.92 (bs, 1H), 13.01 (s, 1H), 8.25 (d, 2H, J = 8.4 Hz), 8.03 - 8.12 (m, 4H), 7.93 (s, 1H), 7.77 (d, 2H, J = 8.4 Hz), 7.72 (s, 1H), 4.30(t, 2H, J = 6.6 Hz), 1.67 - 1.76 (m, 2H), 1.41 - 1.51 (2-m, 2H), 0.95 (t, 3H, J = 7.2 Hz)
27	A-27	Me \(\bigcap_N \)	н	13.05 (s, 1H), 9.16 (s, 1H), 8.80 (d, 1H, J = 7.8 Hz), 8.24 (d, 2H, J = 8.4 Hz), 7.16 (s, 1H), 7.90 (d, 1H, J = 8.7 Hz), 7.77 (d, 2H, J = 8.4 Hz), 7.72 (s, 1H), 2.74 (d, 3H)
28	A-28	-CH₂COOEt	н	13.94 (bs, 1H), 12.82 (s, 1H), 8.21 (d, 2H, J = 8.7 Hz), 7.74 (d, 2H, J = 8.7 Hz), 7.71 (s, 1H), 7.08 (s, 1H), 4.09 (q, 2H, J = 6.9 Hz), 3.75 (s, 2H), 1.20 (t, 3H, J = 7.2 Hz)

Table 4

Example No.	Com pound No.	R ⁶	R7	¹ H-NMR (δ) ppm (DMSO d-6)
29	A-29	Me MeOOC	н	13.91 (bs, 1H), 12.86 (s, 1H), 8.22 (d 2H, J=8.5 Hz), 7.75 (d, 2H, J=8.5 Hz), 7.71 (s, 1H), 7.22 (s, 1H), 7.09 (q, 1H, J=6.9 Hz), 3.68 (s, 3H), 1.89 (d, 3H, J=6.9 Hz)
30	A-30	AcO, N EtOOC	Н .	13.94 (bs, 1H), 13.23 (s, 1H), 8.24(d, 2H, J = 8.1 Hz), 7.98 (s, 1H), 7.75 (d 2H, J = 8.1 Hz), 7.71 (s, 1H), 4.46 (q 1H, J = 7.2 Hz), 2.10 (s, 3H), 1.35 (t, 3H, J = 7.2 Hz)
31	A-31		Н	13.90 (bs, 1H), 13.08 (s, 1H), 9.64 (d, 1H, J = 2.1 Hz), 9.10 (s, 1H), 8.27 (d, 2H, J = 8.5 Hz), 8.20 (d, 2H, J = 8.1 Hz), 8.17 (s, 1H), 7.92 (td, 1H, J = 8.7 Hz, 1.8 Hz), 7.76 - 7.81 (m, 3H), 7.72(s, 1H)
32	A-32	<u></u>	-COOEt	14.04 (bs, 1H), 13.30 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 7.73 - 7.76 (m, 4H), 7.70 (s, 1H), 7.44 - 7.46 (m, 3H), 4.22 (q, 2H, J = 6.9 Hz), 1.23 (t, 3H, J = 6.9 Hz)
33	A-33		-СООМе	13.97 (bs, 1H), 13.31 (s, 1H), 8.24 (d, 2H, J = 8.4 Hz), 8.76 (d, 2H, J = 8.4 Hz), 7.73 - 7.76 (m, 2H), 7.70 (s, 1H) 7.44 - 7.46 (m, 3H), 3.75 (s, 1H)
34	A-34	_	-CH₂COOMe 	13.88 (bs, 1H), 12.89 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.76 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.60 - 7.63 (m, 2H), 7.38 - 7.51 (d, 3H), 3.99 (s, 2H), 3.68 (s, 3H)
35	A-35	—	-(CH2)2CO2Me	13.93 (bs, 1H), 12.80 (s, 1H), 8.22 (d, 2H, J = 8.5 Hz), 7.75 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.46 - 7.51 (m, 2H), 7.46 - 7.51 (m, 2H), 7.36 : 7.42 (m, 1H), 3.6 (s, 3H), 3.17 (t, 2H, J = 7.4 Hz), 2.72 (t, 2H, J = 7.4 Hz)
36	A-36	<u></u>		13.93 (bs, 1H), 12.80 (s, 1H), 8.22 (d, 2H, J = 8.5 Hz), 7.75 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.46 - 7.51 (m, 2H), 7.46 - 7.51 (m, 2H), 7.36 - 7.42 (m, 1H), 4.05 (q, 2H, J = 7.1 Hz), 3.17 (t, 2H, J = 7.4 Hz), 2.72 (t, 2H, J = 7.4 Hz), 1.16 (t, 2H, J = 7.1 Hz)

Table 5

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Example No.	Com pound No.	R ⁶	·R7	¹ H-NMR (8) ppm (DMSO d-6)
37	A-37	CI—(СН₃	13.90 (bs, 1H), 12.80 (s, 1H),8.22 (d, 2H, J=8.5 Hz), 7.74 (d, 2H, J=8.5 Hz), 7.72 (d, 2H, J=8.2 Hz), 7.71 (s, 1H), 7.53 (d, 2H, J=8.2 Hz), 2.51 (s, 3H)
38	A-38	◇	Et	13.87 (bs, 1H), 12.76 (s, 1H), 8.22 (d, 2H, J = 8.5 Hz), 7.75 (d, 2H, J = 8.5 Hz), 7.70 (s, 1H), 7.62 - 7.65 (m, 2H), 7.45 - 7.50 (m, 2H), 7.35 - 7.40 (m, 1H), 2.93 (q, 2H, J = 7.7 Hz), 1.29 (t, 3H, J = 7.7 Hz)
39	A-39	Me	O ₂ N-{	13.93 (bs, 1H), 12.98 (s, 1H), 8.30 (d, 2H, J = 9.0 Hz), 8.23 (d, 2H, J = 8.2 Hz), 7.79 (d, 2H, J = 9.0 Hz), 7.75 (d, 2H, J = 8.2 Hz), 7.70 (s, 1H), 2.50 (s, 1H)
40	A-40	O ₂ N-	н	13.92 (bs, 1H), 12.76 (s, 1H),8.19 (d, 4H, J = 8.8 Hz), 7.72 (d, 2H, J = 8.2 Hz), 7.69 (s, 1H), 7.54 (d, 2H, J = 8.2 Hz), 7.05 (s, 1H), 4.17 (s, 2H)
41	A-41		Me	13.15 (s, 1H),8.92 (d, 2H, J = 6.3 Hz), 8.56 (s, 1H), 8.40 (d, 2H, J = 6.3 Hz), 8.25 (d, 2H, J = 8.5 Hz), 7.77 (d, 2H, J = 8.5 Hz), 7.72(s, 1H)
42	A-42	F-(СООМе	13.90 (bs, 1H), 13.31 (s, 1H), 8.24 (d, 2H, J=8.7 Hz), 7.80 - 7.84 (m, 2H), 7.75 (d, 1H, J=8.7 Hz), 7.70 (s, 1H), 7.26 - 7.32 (m, 2H), 3.76 (s, 3H)
43	A-43	3 F——	CH₂CH₂Cl	13.92 (bs, 1H), 12.86 (s, 1H), 8.22 (d, 2H, J = 8.5 Hz), 7.75 (d, 1H, J = 8.5 Hz), 7.71 (s, 1H), 7.65 - 7.69 (m, 2H), 7.28 - 7.34 (m, 2H), 3.91 (t, 2H, J = 6.6 Hz), 3.33 (t, 2H, J = 6.6 Hz)
44	A-44	F-(Me	13.92 (bs, 1H), 12.81 (s, 1H), 8.22 (d, 2H, J = 8.5 Hz), 7.74 (d, 2H, J = 8.5 Hz), 7.70 (s, 1H), 7.52 - 7.63 (m, 2H), 7.28 - 7.34 (m, 2H), 2.38 (s, 3H)
45	A-45		CON(Me)₂	13.96 (bs, 1H), 13.15 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 7.77 (d, 2H, J = 8.5 Hz), 7.23 (s, 1H), 7.65 - 7.69 (m, 2H), 7.37 - 7.51 (m, 3H), 2.97 (s, 3H), 2.67 (s, 3H)
46	A-46		CONH ₂	13.94 (bs, 1H), 13.10 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 7.72 - 7.81 (m, 5H), 7.52 (bs, 2H), 7.41 - 7.49 (m, 3H)

Table 6

Example No.	Com pound No.	R ⁶	R7	¹ H-NMR (δ) ppm (DMSO d-6)
47	A-47	○	СОМНМе	13.90 (bs, 1H), 13.11 (s, 1H), 8.25 (d, 2H, J=8.5 Hz), 8.18 (q, 1H, J=4.7 Hz), 7.76 (d, 2H, J=8.5 Hz), 7.71 - 7.74 (m, 3H), 7.37 - 7.48 (m, 3H), 2.71 (d, 3H, J=4.7 Hz)
48	A-48		*-CH ₂ -	13.95 (bs, 1H), 13.00 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 7.75 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.56 - 7.60 (m, 2H), 7.36 - 7.41 (m, 1H), 7.23 - 7.29 (m, 1H), 3.92 (s, 2H)
49	.• A-49		*-(CH2)2-	13.92 (bs, 1H), 12.85 (s, 1H), 8.24 (d, 2H, J=8.5 Hz), 7.72 - 7.77 (m, 4H), 7.18 - 7.32 (m, 3H), 2.96 - 3.05 (m, 4H)
50	A-50		*-(CH2)3-	13.89 (bs, 1H), 12.76 (s, 1H), 8.23 (d, 2H, J = 8.5 Hz), 7.99 (d, 1H, J = 7.1 Hz), 7.75 (d, 2H, J = 8.1 Hz), 7.71 (s, 1H), 7.19 - 7.34 (m, 3H), 72.96 (t, 2H, J = 7.1 Hz), 2.78 - 2.81 (m, 2H), 2.07 - 2.15 (m, 2H)
51	A-51	Br—	CH₂CH₂Cl	13.95 (bs, 1H), 12.90 (s, 1H), 8.22 (d, 2H, J = 8.5 Hz), 7.75 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.66 - 7.71 (m, 2H), 7.57 - 7.62 (m, 2H), 3.91 (t, 2H, J = 6.8 Hz), 3.33 (t, 2H, J = 6.8 Hz)
52	A-52	AcHN-	H -	13.99 (bs, 1H), 12.92 (s, 1H), 10.03 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.88 (d, 2H, J = 8.5 Hz), 7.75 (d, 2H, J = 8.5 Hz), 7.72 (s, 1H), 7.66 (d, 2H, J = 8.5 Hz), 7.59 (s, 1H), 2.07 (s, 3H)
53	A-53	F ₃ C	н	13.98 (bs, 1H), 12.95 (s, 1H), 8.33 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 8.23 - 8.27 (m, 1H), 7.98 (s, 1H), 7.77 (d, 2H, J = 8.5 Hz), 7.69 - 7.72 (m, 3H)
54	A-54	н	CI	13.90 (bs, 1H), 8.22 (d, 2H, J = 8.5 Hz), 8.14 (s, 1H), 7.76 (d, 2H, J = 8.5 Hz), 775 (s, 1H), 7.62 - 7.70 (m, 2H)
55	A-55	н		13.87 (bs, 1H), 12.86 (s, 1H), 8.23 (d, 2H, J = 8.5 Hz), 7.98 (s, 1H), 7.76 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.68 - 7.52 (m, 2H), 7.42 - 7.47 (m, 2H), 7.30 - 7.35 (m, 1H)
56	A-56	Br S Me	. H	13.89 (bs, 1H), 12.95 (s, 1H), 8.23 (d, 2H, J = 8.5 Hz), 7.75 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.36 (s, 1H), 7.11 (s, 1H), 2.40 (s, 3H)

Table 7

10 No.					· · · · · · · · · · · · · · · · · · ·	
15 A-57 Me S Me H Hz, J = 8.5 Hz), 7.76 (d, 2H, Hz), 7.71 (s, 1H), 7.29 (s, 1H), (d, 1H, J = 1.1 Hz), 2.60 (s, 3H) (d, 3H), 12.99 (s, 1H), 8.5 Hz), 7.75 (d, 2H, Hz), 7.69 (s, 1H), 7.57 (d, 2H, Hz), 7.69 (s, 1H), 7.54 (d, 1H, J = 8.5 Hz), 7.75 (d, 2H, Hz), 7.69 (s, 1H), 7.54 (d, 1H, J = 8.5 Hz), 7.76 (d, 2H, J = 8.5 Hz), 7.86 - 7.90 (h, 1H, J = 8.5 Hz), 7.86 - 7.90 (h, 1H, J = 8.5 Hz), 7.86 - 7.90 (h, 1H, J = 8.5 Hz), 7.76 (d, 2H, J = 8.5 Hz), 7.72 (d, 2H, J = 8.4 Hz), 7.93 - 8.01 (m, 7.82 (s, 1H), 7.80 - 7.82 (m, 1H), 7.82 (s, 1H), 7.80 - 7.82 (m, 1H), 7.80 (m, 6H), 7.72 (d, 2H, J = 8.5 Hz), 7.60 (m, 6H), 7.77 (d, 2H, J = 8.5 Hz), 7.96 (s, 1H), 8.88 (s, 3H) 13.94 (bs, 1H), 12.91 (s, 1H), 8.84 (d, 2H, J = 8.5 Hz), 7.96 (m, 6H), 7.72 (a, 2H, J = 8.5 Hz), 7.73 (s, 1H), 7.80 (m, 6H), 7.72 (a, 2H, J = 8.5 Hz), 7.73 (s, 1H), 7.80 (m, 6H), 7.72 (a, 2H, J = 8.5 Hz), 7.87 (s, 1H), 7.84 (m, 6H), 7.72 (s, 1H), 7.84 (m, 1H), 7.15 - 7.21 (m, 1H), 7.	5		pouna	R ⁶	R ⁷	
2H, J = 8.2 Hz), 7.75 (d, 2H, dz), 7.69 (s, 1H), 7.54 (d, 1H, dz), 7.69 (s, 1H), 7.54 (d, 1H, dz), 7.24 (dd, 1H, J = 8.5 Hz), 6.97 (d, 1H, J = 8.5 Hz), 7.66 (d, 2H, J = 8.5 Hz), 7.76 (d, 2H, J = 8.5 Hz), 7.72 (g, 2H), 3.23 (s, 2H) 30	10	57		Me \S Me	Н	13.89 (bs, 1H), 12.77 (s, 1H), 8.23 (d, 2H, J = 8.5 Hz), 7.76 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.29 (s, 1H), 7.07 (d, 1H, J = 1.1 Hz), 2.60 (s, 3H), 2.40 (s, 3H)
25 A-59 *-SCH ₂ *-SCH ₂ 2H, J = 8.5 Hz), 7.86 - 7.90 (m. 7.76 (d, 2H, J = 8.5 Hz), 7.72 (g. 7.34 - 7.37 (m, 1H), 7.19 - 7.3 (2H), 4.32 (s, 2H) B	15 	58	A-58	CI-C	*-OCH₂-	14.03 (bs, 1H), 12.99 (s, 1H), 8.23 (d, 2H, J = 8.2 Hz), 7.75 (d, 2H, J = 8.2 Hz), 7.69 (s, 1H), 7.54 (d, 1H, J = 2.5 Hz), 7.24 (dd, 1H, J = 8.5 Hz, 2.5 Hz), 6.97 (d, 1H, J = 8.5 Hz), 5.54 (s, 2H)
60 A-60 F H 2H, J = 8.4 Hz), 7.93 - 8.01 (m 7.82 (s, 1H), 7.80 - 7.82 (m, 1H) (d, 2H, J = 8.4 Hz), 7.71 (s, 1H) 13.94 (bs, 1H), 13.01 (s, 1H), 8. 2H, J = 8.2 Hz), 8.18 (d, 2H, J Hz), 7.96 (s, 1H), 7.82 (d, 2H, J Hz), 7.76 (d, 2H, J = 8.2 Hz), 7 1H) 13.94 (bs, 1H), 12.91 (s, 1H), 8. 2H, J = 8.5 Hz), 7.96 (s, 1H), 7.80 (m, 6H), 7.22 - 7.28 (m, 3.88 (s, 3H)) 13.95 (bs, 1H), 12.97 (s, 1H), 8. 2H, J = 8.5 Hz), 8.00 - 8.02 (m, 7.94 - 7.96 (m, 6H), 7.77 (d, 2H, 7.94 - 7.96 (m, 6H), 7.77 (d, 2H, 7.94 - 7.96 (m, 6H), 7.77 (d, 2H, 7.84 (m, 6H), 7.73 (s, 1H), 7.60 (t, 1H, 7.84 (m, 6H), 7.72 (s, 1H), 8. 45 64 A-64 A-64 F H 2H, J = 8.5 Hz), 7.36 (m, 1H) 13.97 (bs, 1H), 12.97 (s, 1H), 8. 2H, J = 8.5 Hz), 7.34 - 7.36 (m, 1H) 13.97 (bs, 1H), 12.97 (s, 1H), 7.60 (t, 1H, 7.84 (m, 6H), 7.72 (s, 1H), 7.47 (m, 1H), 7.15 - 7.21 (m, 1H) 13.40 (s, 1H), 8.24 (d, 2H, J = 13.40 (s, 1H), 8.24 (d, 2	20	59	A-59		*-SCH₂-	13.84 (bs, 1H),12.95 (s, 1H), 8.34 (d, 2H, J = 8.5 Hz), 7.86 - 7.90 (m, 1H), 7.76 (d, 2H, J = 8.5 Hz), 7.72 (s, 1H), 7.34 - 7.37 (m, 1H), 7.19 - 7.30 (m,
30 61 A-61 F ₃ C — H 13.94 (bs, 1H), 13.01 (s, 1H), 8.2H, J = 8.2 Hz), 8.18 (d, 2H, J Hz), 7.76 (d, 2H, J = 8.2 Hz), 7.1H) 62 A-62 MeO — H 13.94 (bs, 1H), 12.91 (s, 1H), 8.2H, J = 8.5 Hz), 7.96 (s, 1H), 7.80 (m, 6H), 7.22 - 7.28 (m, 3.88 (s, 3H)) 63 A-63 F ₃ CO 64 A-64 F 65 A-64 F 66 A-64 F 67 A-64 F 68 A-64 F 69 A-64 F 69 A-64 F 60 A-64 F 60 A-64 F 60 A-64 F 60 A-64 F 61 A-64 F 62 A-64 F 63 A-64 F 64 A-64 F 65 A-64 F 66 A-64 F 67 A-64 F 68 A-64 F 69 A-64 F 60 A-64 F 61 A-64 F 62 A-64 F 63 A-64 F 64 A-64 F 65 A-64 F 66 A-64 F 67 A-64 F 68 A-64 F 69 A-64 F 60 A-64 F	25	60	A-60	F————	н	13.93 (bs,1H), 12.93 (s, 1H),8.23 (d, 2H, J = 8.4 Hz), 7.93 - 8.01 (m, 1H), 7.82 (s, 1H), 7.80 - 7.82 (m, 1H), 7.76 (d, 2H, J = 8.4 Hz), 7.71(s, 1H)
40 62 A-62 MeO F H 2H, J = 8.5 Hz), 7.96 (s, 1H), 7.80 (m, 6H), 7.22 - 7.28 (m, 3.88 (s, 3H) 13.95 (bs, 1H), 12.97 (s, 1H), 8.2 2H, J = 8.5 Hz), 8.00 - 8.02 (m, 7.94 - 7.96 (m, 6H), 7.77 (d, 2H, 8.5 Hz), 7.73 (s, 1H), 7.60 (t, 1H, 7.8 Hz), 7.34 - 7.36 (m, 1H) 13.97 (bs, 1H), 12.97 (s, 1H), 8.2 45 46 A-64 A-64 H 17.84 (m, 6H), 7.72 (s, 1H), 7.47 (m, 1H), 7.15 - 7.21 (m, 1H) 13.40 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 8	30	61	A-61	F ₃ C-	H	13.94 (bs, 1H), 13.01 (s, 1H),8.25 (d, 2H, J = 8.2 Hz), 8.18 (d, 2H, J = 8.2 Hz), 7.96 (s, 1H), 7.82 (d, 2H, J = 8.2 Hz), 7.76 (d, 2H, J = 8.2 Hz), 7.71 (s,
40 63 A-63 F ₃ CO H 2H, J = 8.5 Hz), 8.00 - 8.02 (m, 7.94 - 7.96 (m, 6H), 7.77 (d, 2H) 8.5 Hz), 7.73 (s, 1H), 7.60 (t, 1H) 7.8 Hz), 7.34 - 7.36 (m, 1H) 13.97 (bs, 1H), 12.97 (s, 1H), 8.2 H, J = 8.5 Hz), 7.87 (s, 1H), 7.84 (m, 6H), 7.72 (s, 1H), 7.47 (m, 1H), 7.15 - 7.21 (m, 1H) 13.40 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 8.2	35 .	62	A-62	MeO F	н	13.94 (bs, 1H), 12.91 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.96 (s, 1H), 7.67 - 7.80 (m, 6H), 7.22 - 7.28 (m, 1H), 3.88 (s, 3H)
H 2H, J = 8.5 Hz), 7.87 (s, 1H), 7.84 (m, 6H), 7.72 (s, 1H), 7.84 (m, 1H), 7.15 · 7.21 (m, 1H) 13.40 (s, 1H), 8.24 (d, 2H, J =	40	63	A-63	F ₃ CO	н	13.95 (bs, 1H), 12.97 (s, 1H), 8.25 (d, 2H, J = 8.5 Hz), 8.00 - 8.02 (m, 1H), 7.94 - 7.96 (m, 6H), 7.77 (d, 2H, J = 8.5 Hz), 7.73 (s, 1H), 7.60 (t, 1H, J = 7.8 Hz), 7.34 - 7.36 (m, 1H)
13.40 (s, 1H), 8.24 (d, 2H, J	45	64	A-64	F	н	13.97 (bs, 1H), 12.97 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.87 (s, 1H), 7.26 - 7.84 (m, 6H), 7.72 (s, 1H), 7.47 - 7.54 (m, 1H), 7.15 - 7.21 (m, 1H)
	50	65	A-65	F ₃ C-{	CO₂Me	13.40 (s, 1H), 8.24 (d, 2H, J = 8.2 Hz), 7.97 (d, 2H, J = 8.5 Hz), 7.83 (d, 2H, J = 8.0 Hz), 7.76 (d, 2H, J = 8.0
	55	66	A-66	F F		3.24 (d, 2H, J = 8.5 Hz), 7.77 (d, 2H, J = 8.5 Hz), 7.73 (s, 1H), 7.72 (s, 1H)

Table 8

Example No.	Com pound No.	R ⁶	R ⁷	¹H-NMR (8) ppm (DMSO d-6)
67	A-67		н	13.96 (bs, 1H), 12.98 (s, 1H), 8.25 (d, 2H, J = 8.2 Hz), 8.09 - 8.15 (m, 1H), 7.77 (d, 2H, J = 8.5 Hz), 7.73 (s, 1H), 7.63 (d, 1H, j = 2.5 Hz), 7.31 - 7.44 (m, 3H)
68	A-68	OCF ₃	н	13.96 (bs, 1H), 12.96 (s, 1H), 8.23 (d 2H, J = 8.2 Hz), 7.86 (d, 1H, J = 7.5 Hz), 7.62 - 7.78 (m, 6H), 7.35 (s, 1H)
69	A-69	F F F F F F F F F F F F F F F F F F F	н	13.93 (bs, 1H), 13.03 (s, 1H), 8.24 (d, 2H, J = 8.2 Hz), 7.76 (d, 2H, J = 8.5 Hz), 7.72 (s, 1H), 7.47 · 7.57 (m, 1H), 7.55 (s, 1H), 7.17 · 7.28 (m, 2H)
70	A-70	F-	н	13.95 (bs, 1H), 12.97 (s, 1H), 8.25 (d, 2H, J = 8.2 Hz), 8.09 - 7.18 (m, 1H), 7.76 (d, 2H, J = 8.2 Hz), 7.72 (m, 1H), 7.60 (d, 1H, J = 2.7 Hz), 7.36 - 7.44 (m, 1H), 7.20 - 7.27 (m, 1H)
71	A-71	F———F	н	13.96 (bs, 1H), 12.94 (s, 1H), 8.23 (d, 2H, J = 8.2 Hz), 7.97 - 8.06 (m, 1H), 7.75 (d, 2H, J = 8.2 Hz), 7.67 - 7.72 (m, 1H), 7.69 (s, 1H), 7.67 (d, 1H, J = 2.5 Hz)
72	A-72	Br		13.99 (bs, 1H), 12.92 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 8.19 (t, 2H, J = 1.6 Hz), 7.95 - 7.98 (m, 1H), 7.87 (s, 1H), 7.77 (d, 2H, J = 8.5 Hz), 7.52 - 7.56 (m, 1H), 7.42 (t, 1H, J = 8.0 Hz)
73	A-73		n 1	13.97 (bs, 1H), 12.95 (s, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.72 - 7.84 (m, 8H),

[0068] Compound (B-1) to Compound (B-25) were synthesized in a manner similar to Example 1 by using 1,4-thia-zolidine-dione instead of rhodanine. Their physical data were shown in Tables 9 to 11.

Table 9

R⁶ NS H S NH

		R'		
Example No.	Com pound No.	R ⁶	R ⁷	¹ H-NMR (δ) ppm (DMSO d-6)
74	B-1		Н	12.92 (s, 1H), 12.72 (bs, 1H), 8.24 (d 2H, J = 8.4 Hz), 7.95 - 7.98 (m, 2H), 7.87 (s, 1H), 7.76 (d, 2H, J = 8.4 Hz) 7.73 (s, 1H), 7.43 - 7.48 (m, 2H), 7.32 - 7.37 (m, 1H)
75	B-2	F-	Н	12.89 (s, 1H), 12.75 (bs, 1H), 8.24 (d, 2H, J = 8.4 Hz), 7.97 - 8.02 (m, 2H), 7.87 (s, 1H), 7.76 (d, 2H, J = 8.4 Hz), 7.70 (s, 1H), 7.26 - 7.32 (m, 2H)
76	B-3	Br—	н	12.92 (s, 1H), 12.73 (bs, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.94 (d, 2H, J = 7.1 Hz), 7.90 (s, 1H), 7.86 (s, 1H), 7.76 (d, 2H, J = 8.5 Hz), 7.65 (d, 2H, J = 7.1 Hz)
77	B-4	ci—(Н	12.91 (s, 1H), 12.72 (bs, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.98 (d, 2H, J = 8.5 Hz), 7.86 (s, 1H), 7.79 (s, 1H), 7.76 (d, 2H, J = 8.5 Hz), 7.52 (d, 2H, J = 8.5 Hz)
78 · ·	B-5	Me-C	н	12.89 (s, 1H), 12.75 (bs, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.87 (s, 1H), 7.85 (d, 1H, J = 8.1 Hz), 7.76 (d, 2H, J = 8.5 Hz), 7.64 (s, 1H), 7.26 (d, 1H, J = 8.1 Hz), 2.34 (s, 3H)
79	B-6	Ph-	H	12.94 (s, 1H), 12.74 (bs, 1H), 8.25 (d, 2H, $J = 8.4$ Hz), 8.06 (d, 2H, $J = 8.1$ Hz), 7.87 (s, 1H), 7.72 - 7.79 (m, 7H), 7.49 (t, 2H, $J = 7.5$ Hz), 7.38 (t, 2H, $J = 7.5$ Hz)
80	В-7	MeO-	н	12.89 (s, 1H), 12.76 (bs, 1H), 8.24 (d, 2H, J = 8.4 Hz), 7.99 (d, 2H, J = 8.7 Hz), 7.86 (s, 1H), 7.76 (d, 2H, J = 8.4 Hz), 7.56 (s, 1H), 7.01 (d, 2H, J = 8.7 Hz), 3.80 (s, 3H)
81	B-8	NO ₂	Н	12.85 (s, 1H), 12.73 (bs, 1H), 8.21 (d, 2H, J = 8.7 Hz), 7.94 (dd, 1H, J = 7.8 Hz, 1.2 Hz), 7.86 (s, 1H), 7.78 - 7.83 (m, 2H), 7.74 (d, 2H, J = 8.7 Hz), 7.61 - 7.67 (m, 1H), 7.59 (S, 1H)

Table 10

	Example No.	Com pound No.	R ⁶	R ⁷	¹ H-NMR (δ) ppm (DMSO d-6)
	82	B-9	t-Bu	Н	12.70 (s, 1H), 8.20 (d, 2H, J = 8.7 Hz), 7.84 (s, 1H), 7.73 (d, 2H, J = 8.7 Hz), 6.84 (S, 1H), 1.31 (s, 9H)
	83	B-10	t-Bu—	H	12.90 (s, 1H), 12.73 (bs, 1H), 8.24 (d, 2H, J=8.5 Hz), 7.88 (d, 2H, J=8.5 Hz), 7.87 (s, 1H), 7.76 (d, 2H, J=8.5 Hz), 7.64 (s, 1H), 7.47 (d, 2H, J=8.5 Hz), 1.32 (s, 9H)
	84	B-11	меоос-С	H	12.97 (s, 1H), 12.72 (bs, 1H), 8.25 (d, 2H, J = 8.5 Hz), 8.08 (dd, 4H, J = 18.9 Hz, 8.8 Hz), 7.94 (s, 1H), 7.87 (s, 1H), 7.76 (d, 2H, J = 8.5 Hz), 3.81 (s, 3H)
	85	B-12	n-Pen-	н	12.89 (s, 1H), 12.72 (bs, 1H), 8.24 (d, 2H, J = 8.7 Hz), 7.87 (s, 1H), 7.85 (d, 2H, J = 8.4 Hz), 7.63 (s, 1H), 7.26 (d, 2H, J = 8.7 Hz), 2.60 (t, 2H, J = 7.8 Hz), 1.55 - 1.65 (m, 2H), 1.27 - 1.36 (m, 2H), 0.87 (t, 3H, J = 7.8 Hz)
:	86	B-13	O ₂ N- ⟨_ ⟩	н	13.03 (s, 1H), 12.73 (bs, 1H), 8.34 (d, 2H, J = 8.5 Hz), 8.24 (d, 2H, J = 8.7 Hz), 8.22 (d, 2H, J = 8.7 Hz), 8.09 (s, 1H), 7.86 (s, 1H), 7.76 (d, 2H, J = 8.5 Hz)
	87	B-14	CI \S	н	12.89 (s, 1H), 12.73 (bs, 1H), 8.23 (d, 2H, J = 8.7 Hz), 7.87 (s, 1H), 7.75 (d, 2H, J = 8.7 Hz), 7.64 (s, 1H), 7.44 (d, 1H, J = 3.9 Hz), 7.15 (d, 1H, J = 3.9 Hz)
	88	B-15	S	н	12.89 (s, 1H), 12.72 (bs, 1H), 8.24 (d, 2H, J = 8.5 Hz), 7.87 (s, 1H), 7.83 - 7.84 (m, 1H), 7.75 (d, 2H, J = 8.5 Hz), 7.62 - 7.63 (m, 2H), 7.56 (s, 1H)
	89	B-16	CI	н	12.92 (s, 1H), 12.73 (bs, 1H), 8.24 (d, 2H, J = 8.7 Hz), 8.22 (d, 1H, J = 2.4 Hz), 7.95 (dd, 1H, J = 8.4 Hz, 2.4 Hz), 7.94 (s, 1H), 7.86 (s, 1H), 7.77 (d, 2H, J = 8.7 Hz), 7.73 (d, 1H, J = 8.4 Hz)
	90	B-17	Br	н	12.99(s, 1H), 12.75 (bs, 1H), 8.38 (m, 1H), 8.25 (m, 2H), 7.99 (m, 2H), 7.87 (s, 1H), 7.77 (d, 2H, J = 8.4 Hz), 7.55 (m, 4H), 7.73 (m, 1H),
,	91	B-18	F——	н	12.91 (s, 1H,), 12.76 (bs, 1H), 8.86(s, 1H), 8.23 (d, 2H, J=8.7 Hz), 7.96 (m, 1H), 7.83 (m, 1H), 7.82 (s, 1H), 7.75 (d, 2H, J=8.7 Hz), 7.52 (m, 1H)

Table 11

Example No.	Com	R ⁶	R ⁷	¹ H-NMR (δ) ppm (DMSO d-6)
92	B-19		н	12.99(s, 1H), 12.75 (bs, 1H), 8.38 (1H, m), 8.26 (d,, 2H, J=8.7 Hz), 7.99 (m, 2H), 7.87(s, 1H), 7.77 (d, 2H, J=8.7 Hz), 7.56 (m, 4H), 7.73 (m, 1H)
93	B-20	Н	Н	12.72 (bs, 2H), 8.22 (d, 2H, J=8.7 Hz), 7.86 (s, 1H), 7.58 (d, 1H, J=3.6 Hz), 7.75 (d, 2H, J=8.7 Hz), 7.31 (d, 1H, J=3.6 Hz),
94	B-21		*-(CH ₂) ₂ -	12.84 (s, 1H), 12.73 (bs, 1H), 8.23 (d, 2H, J = 8.5 Hz), 7.86 (s, 1H), 7.75 (d, 2H, J = 8.5 Hz), 7.74 (d, 1H, J = 6.9 Hz), 7.18 - 7.32 (m, 3H), 2.96 - 3.05 (m, 4H)
95	B-22	<u>_</u>	*-(CH2)3-	12.75 (s, 2H), 8.23 (d, 2H, J = 8.5 Hz), 8.00 (d, 2H, J = 7.4 Hz), 7.86 (s, 1H), 7.75 (d, 2H, J = 8.5 Hz), 7.19 - 7.33 (m, 3H), 2.96 (t, 2H, J = 6.8 Hz), 2.78 - 2.82 (m, 2H), 2.06 - 2.15 (m, 2H)
96	B-23	F-{\}-	CH₂CH₂Cl	12.86 (s, 1H), 12.74 (bs, 1H), 8.22 (d, 2H, J = 8.5 Hz), 7.86 (s, 1H), 7.75 (d, 2H, J = 8.5 Hz), 7.65 - 7.69 (m, 2H), 7.29 - 7.35 (m, 2H), 3.91 (t, 2H, J = 6.8 Hz), 3.32 (t, 2H, J = 6.8 Hz)
97	B-24	cı——	Me ·	12.76 (s, 1H), 12.70 (bs, 1H), 8.22 (d, 2H, J = 8.5 Hz), 7.85 (s, 1H), 7.74 (d, 2H, J = 8.5 Hz), 7.72 (d, 2H, J = 8.5 Hz), 7.53 (d, 2H, J = 8.5 Hz), 2.51 (s, 1H)
98	B-25		СН₂Ме	12.77 (s, 1H), 12.70 (bs, 1H), 8.22 (d, 2H, J = 8.5 Hz), 7.86 (s, 1H), 7.75 (d, 2H, J = 8.5 Hz), 7.62 - 7.65 (m, 2H), 7.45 - 7.50 (m, 2H), 7.35 - 7.40 (m, 1H), 2.93 (q, 2H, J = 7.4 Hz), 1.29 (t, 3H, J = 7.4 Hz)

[0069] Compound (C-1) to Compound (C-9) were synthesized in a manner similar to Example 1 by using 1,4-oxazolidine-dione instead of rhodanine. Their physical data were shown in Tables 12.

Table 12

R6_N>N		WH WH
H ² -S	0	Ö

			R'	
Example No.	Com pound No.	R ⁶	R7	¹ H-NMR (8) ppm (DMSO d-6)
99	C-1	CI	н	12.88 (s, 1H,), 12.54 (bs, 1H), 8.22 (s, 1H), 8.20 (d, 2H, J = 5.8 Hz), 7.91 - 7.97 (m, 4H), 7.72 (d, 1H, J = 8.5 Hz), 6.83 (s, 1H)
100	C-2	MeOOC-	H	12.96(s, 1H), 12.54 (bs, 1H), 8.22 (d, 2H, J = 8.7 Hz), 8.04 - 8.13 (m, 1H), 7.94 (s, 1H), 7.93 (d, 2H, J = 6.9 Hz), 6.84 (s, 1H), 3.88 (s, 3H)
101	C-3	F	н	12.89 (s, 1H,), 12.55 (bs, 1H), 8.21 (d, 2H, 6) = 8.5 Hz), 7.89 - 8.03 (m, 1H), 7.93 (d, 2H, J = 8.5 Hz), 7.89 - 7.86 (m, 1H), 7.82 (s, 1H), 7.48 - 7.57 (m, 1H), 6.83 (s, 1H)
102	C-4	CI LS	н	12.96(s, 1H), 12.55 (bs, 1H), 8.20 (d, 2H, J = 8.5 Hz), 7.92 (d, 2H, J = 8.5 Hz), 7.34 (s, 1H), 7.42 (d, 1H, J = 3.8 Hz), 7.24 (d, 2H, Z = 3.8 Hz), 6.83 (s, 1H)
103	C-5	<u></u>	*-(CH2)2-	12.81 (s, 1H), 12.54 (bs, 1H), 8.21 (d, 2H, J = 8.5 Hz), 7.92 (d, 2H, J = 8.5 Hz), 7.74 (d, 2H, J = 7.4 Hz), 7.18 - 7.32 (m, 3H), 6.83 (s 1H), 2.95 - 3.05 (m, 4H)
104	C-6	<u>_</u>	*-(CH2)3-	12.72 (s, 1H), 12.56 (bs, 1H), 8.20 (d, 2H, J = 8.5 Hz), 8.01 (d, 1H, J = 7.4 Hz), 7.92 (d, 2H, J = 8.5 Hz), 7.20 - 7.34 (m, 3H), 6.82 (s, 1H), 2.97 (t, 2H, J = 6.8 Hz), 2.79 - 2.81 (m, 2H), 2.09 - 2.13 (m, 2H)
105	C-7	F-{_}	CH₂CH₂Cl	12.83 (s, 1H), 12.55 (bs, 1H), 8.19 (d, 2H, J = 8.5 Hz), 7.92 (d, 2H, J = 8.5 Hz), 7.65 - 7.70 (m, 2H), 8.28 - 7.35 (m, 2H), 6.83 (s, 1H), 3.91 (t, 2H, J = 6.9 Hz), 3.34 (t, 2H, J = 6.9 Hz)
106	C-8	cı—	Me	12.75 (s, 1H), 12.53 (bs, 1H), 8.19 (d, 2H, J = 8.5 Hz), 7.91 (d, 2H, J = 8.5 Hz), 7.72 (d, 2H, J = 8.5 Hz), 7.53 (d, 2H, J = 8.5 Hz), 6.82 (s, 1H), 2.51 (s, 3H)
107	C-9		CH2Me	12.74 (s, 1H), 12.55 (bs, 1H), 8.19 (d, 2H, J = 8.5 Hz), 7.92 (d, 2H, J = 8.5 Hz), 7.62 - 7.65 (m, 2H), 7.45 - 7.50 (m, 2H), 7.35 - 7.40 (m, 1H), 6.83 (s, 1H), 2.93 (q, 2H, J = 7.4 Hz), 1.30 (t, 3H, J = 7.4 Hz)

[0070] Compound (D-1) to Compound (D-20) were synthesized in a manner similar to Example 1 by using commercial

available amines instead of compound (4) in process 3. Their physical data were shown in Tables 13 to 15.

Table 13

· 40

X N S NH

Example No.	Com pound No.	х	RA	¹H-NMR (ð) ppm (DMSO d-6)
108	D-1	ı———	н	7.64 (2H, d, J = 8.7 Hz), 7.71 (2H, d, J = 8.7 Hz), 7.74 (2H, d, J = 8.7 Hz), 7.86(1H, s), 8.06 (2H, d, J = 8.1 Hz), 12.70(1H, br.s)
109 ·	D-2	F-{_}_	H	7.21 (2H, dd, $J = 8.7$ Hz, $J_{H-P} = 8.7$ Hz), 7.75 (2H, d, $J = 8.7$ Hz), 7.80 (2H, m), 7.86 (1H, s), 8.06 (2H, d, $J = 8.7$ Hz), 10.42 (1H, s), 12.72 (1H, bs)
110	D-3	N Et	н	1.33 (3H, t, J = 6.9 Hz), 4.45 (2H, q, J = 6.9 Hz), 7.20 (1H, dd, J = 8.1 Hz, 8.1 Hz), 7.46 (1H, dd, J = 8.1 Hz, 8.1 Hz), 7.60 (2H, m), 7.75 (1H, m), 7.76 (2H, d, J = 8.7 Hz), 7.88 (1H, s), 8.15 (2H, d, J = 8.7 Hz), 8.58 (1H, s), 10.43 (1H, s), 12.73 (1H, bs)
111	D-4	Me N Et	H	1.16 (3H, t, J = 7.2 Hz), 2.30 (3H, s), 3.40 (2H, q, J = 7.2 Hz), 3.56 (2H, t, 5.4 Hz), 3.68 (2H, m), 6.44 (1H, bs), 6.58 (1H, d, J = 7.5 Hz), 6.63 (1H, s), 6.64 (1H, d, J = 7.5 Hz), 7.14 (1H, dd, J = 7.5 Hz, 7.5 Hz), 7.52 (2H, d, J = 8.7 Hz), 7.77 (2H, d, J = 8.7 Hz), 7.83 (1H, s)
112	D-5		111	6.95 (1H; dd, J = 7.5 Hz, 7.5 Hz), 7.23 (3H, m), 7.38 (6H, m), 7.60 (2H, m), 7.69 (2H, m), 7.77 (1H, s), 9.02 (1H, s), 9.25 (1H, s), 12.66 (1H, bs)
113	D-6	_N-<_>	Me	3.47 (3H, s), 7.41 (2H, d, J = 9.0 Hz), 7.47 (4H, m), 7.58 (3H, m), 7.78 (2H, d, J = 9.0 Hz), 7.84 (2H, m), 12.62 (1H, bs)
114	D-7	MeO S	Н	3.83 (3H, s), 7.07 (1H, dd, J = 2.4 Hz, 9.0 Hz), 7.62 (1H, d, J = 2.4 Hz), 7.68 (1H, d, J = 9.0 Hz), 7.76 (2H, d, J = 8.4 Hz), 7.87 (1H, s), 8.23 (2H, d, J = 8.4 Hz), 12.75 (1H, s), 12.88 (1H, s)
115	D-8	~~~~~	н	7.58 (3H, m), 7.77 (2H, d, J = 8.7 Hz), 7.88 (2H, m), 7.95 (3H, m), 8.06 (2H, m), 8.11 (2H, d, J = 8.7 Hz), 10.72 (1H, s), 12.72 (1H, bs)
116	D-9		н	4.49 (2H, d, J=6.0 Hz), 7.25(1H, m), 7.33 (4H, m), 7.69 (2H, d, J=8.1 Hz), 7.83 (1H, s), 8.01 (2H, d, J=8.1 Hz), 9.17 (1H, t, J=6.0 Hz), 12.69 (1H, bs)

Table 14

		Com		T	III NATO (e)
	Example No.	pound No.	Х	RA	¹ H-NMR (δ) ppm (DMSO d-6)
	117	D-10	MeS-	н	2.47 (3H, s), 7.27 (2H, d, J = 9.0 Hz), 7.74 (4 H, m), 7.85 (1H, s), 8.06 (2H, d, J = 9.0 Hz), 12.60 (1H, bs)
, _	118	D-11	n-Bu-	Н	12.45 (bs, 1H), 10.29 (s, 1H), 8.07 (d, 2H, J = 8.1 Hz), 7.87 (s, 1H), 7.74 (d, 2H, J = 8.1 Hz), 7.67 (d, 2H, 8.7 Hz), 7.18 (d, 2H, J = 8.7 Hz), 2.56 (t, 2H, J = 7.5 Hz), 1.50 - 1.61 (m, 2H), 1.25 - 1.37 (m, 2H), 0.91 (t, 3H, J = 7.5 Hz)
	119	D-12		н	13.94 (bs, 1H), 12.25 (s, 1H), 8.17 (d, 2H, J=8.4 Hz), 7.88 - 7.92 (m, 2H), 7.77 (d, 2H, J=8.4 Hz), 7.72 (s, 1H), 7.52 - 7.53 (m, 3H), 6.96 (s, 3H)
	120	D-13	MeO N.O	н	3.893 (3H, s), 7.026 (1H, s), 7.756 (2H, d, J=8.4 Hz), 7.851 (1H, s), 8.028-8.100 (4H, m), 8.156 (2H, d, J=8.4 Hz), 12.277 (1H, s), 12.714 (1H, br)
	121	D-14	CI-CI-NY	Н	7.556 (1H, dd, J=2.1, 8.4 Hz), 7.730- 7.769 (4H, m), 7.865 (1H, s), 7.943 (1H, d, J=8.4 Hz), 8.236 (2H, d, J=8.4 Hz), 12.732 (1H, s), 12.963 (1H, br)
	122	D-15	N·NH	н	7.019 (1H, br), 7.332-7.381(1H, m), 7.467 (2H, t, J=7.7 Hz), 7.711-7.785(4H, m), 7.862 (1H, s), 8.147 (2H, d, J=8.7 Hz)11.024 (1H, s), 12.5 (1H, br)
	123	D-16	MeO N·NH	н	3.879 (3H, s), 7.107 (1H, s), 7.732 (2H, d, J=8.4 Hz), 7.861 (1H, s), 7.933 (2H, d, J=8.7 Hz), 8.036 (2H, d, J=8.7 Hz), 8.152 (2H, d, J=8.4 Hz), 11.124 (1H, s), 12.711 (1H, br)
	124	D-17	F-CN	н	7.31-7.37 (2H, m), 7.735 (2H, d, J=9.0 Hz), 7.86-7.83(2H, m), 7.871 (1H, s), 8.149-8.178 (3H, m), 8.298 (2H, d, J=8.7 Hz), 8.73 (1H, s), 11.058 (1H, s), 12.707 (1H, br)
·	125	D-18	EtO N	Н	1.352 (3H, t, J=7.2 Hz), 4.350 (2H, q, J=7.2 Hz), 7.728 (2H, d, J=8.4 Hz), 7.862 (1H, s), 7.919 (2H, d, J=8.4 Hz), 3.062 (2H, d, J=8.4 Hz), 8.164 (2H, d, J=8.7 Hz), 11.119 (1H, s), 12.716 (1H, pr)

Table 15

X H C S VH

Example No.	Com pound No.	х	¹ H-NMR (8) ppm (DMSO d-6)
126	D-19		13.98(bs, 1H), 11.82(s, 1H), 8.15(d, 2H, J = 8.2 Hz), 7.80(d, 2H, J = 8.2 Hz), 7.72(s, 1H), 7.65(d, 2H, J = 8.0 Hz), 7.43(t, 2H, J = 8.0 Hz), 7.39(s, 1H), 7.30(t, 1H, J = 8.0 Hz), 7.30(s, 1H).
127	D-20		12.1(bs,2H),11.9(bs,1H),8.19 (d, 2H,J= 8.5 Hz), 7.79 (d, 2H, J = 8.5 Hz), 7.74 (d, 2H, J = 8.5 Hz), 7.71 (s, 1H), 7.46 (s, 1H), 7.40(d, 2 H, J = 8.5 Hz)

[0071] Compound (E-1) to Compound (E-5) were synthesized in a manner similar to Example 1 by using methyl 5-formyl-furancarboxylate, methyl 5-formyl-thiophenecarboxylate, and methyl 4-formyl-nicotinate instead of methyl terephthaldehydate. Their physical data were shown in Tables 16.

Table 16

x Hz

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Exampl eNo.	Com pound No.	Х	Z	¹ H-NMR (8) ppm (DMSO d-6)
128	E-1	CI NY	~>\	7.23 (1H, d, J = 3.9 Hz), 7.65 (1H, s), 7.71 (1H, d, J = 8.4 Hz), 7.88-7.94 (3H, m), 8.19 (1H, d, J = 2.4 Hz), 12.6 (1H, br), 12.92 (1H, s)
129	E-2	CI NY	√s_	7.69-7.73 (2H, m), 7.90-7.94 (2H, m), 8.05 (1H, s), 8.19 (1H, d, J = 2.1 Hz), 8.33 (1H, d, J = 4.2 Hz), 12.7 (1H, br), 13.06 (1H, s)
130	E-3	MeO NY		3.87 (3H, s), 7.72 (1H, d, J=4.2 Hz), 7.91 (1H, s), 8.02-8.10 (5H, m), 8.34 (1H, d, J = 4.2 Hz), 12.7 (1H, br), 13.11 (1H, s)
131	E-4	CI N		13.75 (bs, 1H), 13.08 (s, 1H), 9.37 (d, 1H, J = 2.1 Hz), 8.56 (dd, 1H, J = 8.2 Hz, 2.4 Hz), 8.21 (d, 1H, J = 1.8 Hz), 8.05 (d, 1H, J = 7.9 Hz), 7.95 (s, 1H), 7.94 (dd, 1H, J = 9.1 Hz), 2.1 Hz), 7.75 (s, 1H), 7.33 (d, 1H, J = 8.5 Hz)
132	E-5	MeO NS	-(=N	13.77 (bs, 1H), 13.15 (s, 1H), 9.48 (d, 1H, J = 2.7 Hz), 8.57 (dd, 1H, J = 8.4 Hz, 2.4 Hz), 8.02 - 8.12 (m, 4H), 7.96 (s, 1H), 7.92 - 8.02 (m, 1H), 7.75 (s, 1H), 3.88 (s, 3H)

[0072] Compound (F-1) to Compound (F-4) were synthesized in a manner similar to Example 1 by using methyl 4-formyl-phenoxyacetate, methyl 4-formyl-cinnamate, instead of methyl terephthaldehydate. Their physical data were shown in Tables 17.

Table 17

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HK	. 0

			<u>~-S</u>	
Exampl eNo.	Com pound No.	. R ⁶	Y	¹H-NMR (8) ppm (DMSO d-6)
133	F-1	CI CI	pla	4.50 (2H, s), 7.15 (2H, d, J = 8.7 Hz), 7.58 (2H, d, 8.7 Hz), 7.76 (1H, s), 7.88-7.918 (2H, m), 8.15 (1H, d, J = 1.8 Hz), 12.52 (1H, br), 12.60 (1H, s)
134	F-2	MeO	H	3.87 (3H, s), 5.00 (2H, s), 7.16 (2H, d, J = 8.7 Hz), 7.59 (2H, d, J = 8.7 Hz), 7.76 (1H, s), 7.88 (1H, s), 8.01-8.08 (4H, m), 12.50 (1H, br), 12.65 (1H, s)
135	F-3	MeO MeO	N ²	3.87 (3H, s), 7.01 (1H, d, J = 16.2 Hz), 7.66-7.88 (7H, m), 8.01-8.10 (4H, m), 12.64 (1H, s)
136	F-4	CI	H ~	6.99 (1H, d, J = 15.9 Hz), 7.65-7.79 (7H, m), 7.86 (1H, s), 7.89 (1H, dd, J = 2.1 Hz, 8.7 Hz), 8.13 (1H, d, J = 2.1 Hz), 12.58 (1H, s)

35 Example 137

[0073]

(Process 1)

[0074] To a suspension of compound (3)(1.10 g) synthesized by Process 2 in Example 1 in methanol (300 ml), 10% Palladium-Carbon (0.55 g) was added - and the reaction mixture was stirred under hydrogen atmosphere. Removing Palladium-Carbon by filtration and evaporation of the solvent under reduced pressure yielded 1.05 g of compound (6).
 ¹H NMR (DMSO-d₆, δ ppm): 12.46 (bs, 1H), 7.99 (d, 2H, J = 8.4 Hz), 7.37 (d, 2H, J = 8.4 Hz), 4.95 (dd, 1H, J = 9.0 Hz, 4,5 Hz), 3.45 (dd, 1H, J = 14.4 Hz, 4.5 Hz), 3.22 (dd, 1H, J = 14.4 Hz, 9.0 Hz)

(Process 2)

[0075] A mixture of compound (6)(1.0 g) in dioxane (20 ml) and thionyl chloride (10 ml) was heated to dissolve at

100°C. Evaporation of the solvent under reduced pressure gave carboxylic acid chloride. The obtained carboxylic acid chloride was not purified to proceed to the further reaction. To the solution of the carboxylic acid chloride (286 mg), and 2-amino-4-(3',4'-difluorophenyl)thiazole (212 mg) in dioxane (50 ml), pyridine (121 µl) was added and the reaction mixture was heated at 100°C for 2 hours. After evaporation of the solvent under reduced pressure, the residue was purified by silica gel column chromatography (hexane - ethyl acetate; 2:1) to obtain compound (G-1).

 1 H NMR (DMSO-d₆, δ ppm): 12.75 (s, 1H), 12.11 (bs, 1H), 8.08 (d, 2H, J = 8.2 Hz), 7.93 - 8.01 (m, 1H), 7.80 - 7.84 (m, 1H), 7.80 (s, 1H), 7.48 - 7.59 (m, 1H), 7.44 (d, 2H, J = 8.2 Hz), 5.01 (dd, 1H, J = 8.8 Hz, 4.7 Hz), 3.48 (dd, 1H, J = 14.0 Hz, 4.7 Hz), 3.26 (dd, 1H, J = 14.0 Hz, 8.8 Hz)

Example 138

[0076]

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[0077] Compound (G-2) was synthesized in a manner similar to Example 137 by using 2-amino-5-(5'-bromothiophenyl)thiazole instead of 2-amino-4-(3',4'-difluorophenyl)thiazole.

¹H NMR (DMSO-d₆, δ ppm): 12.81 (s, 1H), 12.10 (bs, 1H), 8.08 (d, 2H, J = 8.2 Hz), 7.61 (s, 1H), 7.43 (d, 2H, J = 8.2 Hz), 7.40 (d, 1H, J = 4.1 Hz), 7.24 (d, 1H, J = 4.1 Hz), 5.01 (dd, 1H, J = 8.8 Hz, 4.4 Hz), 3.58 (dd, 1H, J = 14.0 Hz, 4.4 Hz), 3.25 (dd, 1H, J = 14.0 Hz, 8.8 Hz)

Example 139

30 [0078]

(Process 1)

[0079] To a suspension of p-formyl-benzoic acid (3.0 g) in chloroform (30 ml) and thionyl chloride (6 ml), one drop of DMF was added and the mixture was refluxed. After confirmation of the dissolution of the mixture, evaporation of the solvent under reduced pressure gave 3.0 g of compound (7). The obtained compound (7) was subjected to the reaction without further purification. To the solution of compound (4)(2.52 g) in DMF, sodium hydride (0.45 mg) was

added in an ice bath. After the reaction mixture was stirred at room temperature for 30 min, 1.36 g of compound (7) was added. After stirring for further 30 min, the resulting mixture was quenched with methanol and acidified with 1N hydrochloric acid. Extraction with ethyl acetate, evaporation of the solvent, and recrystallization from chloroform gave 1.06 g of compound (8).

¹H NMR(DMSO-d₆, δ ppm) 13.04 (bs, 1H), 10.13 (s, 1H), 8.30 (d, 2H, J = 8.4 Hz), 8.22 (d, 1H, J = 2.1 Hz), 8.07 (d, 2H, J = 8.4 Hz), 7.95 (dd, 1H, J = 8.4 Hz, 2.1 Hz), 7.95 (s, 1H), 7.73 (d, 1H, J = 8.4 Hz).

(Process 2)

10 [0080] To a solution of hydantoin (2.0 g) in acetic acid, bromine (1.3 ml) was added at 85°C. The reaction solution was stirred at 85°C for 30 min and then cooled to 30°C, triethyl phosphite (4.8 ml) was added to the solution maintaining the temperature from 40 to 45°C. After the reaction mixture is stirred at room temperature for 90 min, ether was added and then filtration of the precipitated crystal gave 1.1 g of the compound.

¹H NMR(DMSO-d₆, δ ppm) 10.91 (s, 1H), 8.41 (s, 1H), 4.76 (dd, 1H, J = 14.7 Hz, 1.2 Hz), 4.04 - 4.13 (m, 4H), 1.25 (t, 6H, J = 7.2 Hz).

(Process 3)

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 $\textbf{[0081]} \quad \text{A mixture of sodium (10 mg) in ethanol (1 m l) was stirred at room temperature. After confirmation of dissolution}$ of sodium, compound (10)(108 mg) was added and the reaction mixture was stirred at room temperature for 10 min. After compound (10)(159 mg) was added, the reaction mixture was stirred at room temperature. Evaporation of the solvent under reduced pressure and recrystallization of the residue from methanol obtained compound (H-1). Compound (H-1) was obtained as the mixture of E isomer and Z isomer.

25 ¹H NMR (DMSO-d₆, δ ppm): 12.81 (bs, 1H), 10.76 (bs, 1H), 10.46 (s, 1H), 8.22 (d, 1H, J = 2.4 Hz), 8.15 (d, 2H, J = 8.7 Hz), 7.95 (dd, 1H, J = 8.7 Hz, 2.4 Hz), 7.91 (s, 1H), 7.78 (d, 2H, J = 8.7 Hz), 7.73 (d, 1H, J = 8.7 Hz), 6.48 (s, 1H).

¹H NMR (DMSO-d₆, δ ppm): 11,35 (bs, 1H), 11.26 (bs, 1H), 10.13 (s, 1H), 8.22 (d, 1H, J = 2.4 Hz), 8.10 (d, 2H, J = 9.0 Hz), 8.05 (d, 2H, J = 9.0 Hz), 7.95 (dd, 1H, J = 8.7 Hz, 2.4 Hz), 7.91 (s, 1H), 7.73 (d, 1H, J = 8.7 Hz), 6.38 (s, 1H).

Compound (H-2) to Compound (H-5) were synthesized in a manner similar to above-mentioned method. Their physical data were shown in Tables 18.

Table 18

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Example No.	Com pound No.	M	Т	¹ H-NMR (δ) ppm (DMSO d-6)
140	H-2	NH	S	12.85 (bs, 1H), 12.47 (bs, 1H), 12.33 (bs, 1H), 8.22 (d, 1H, J = 1.8 Hz), 8.16 (d, 2H, J = 8.2 Hz), 7.91 - 7.97 (m, 4H), 7.73 (d, 1H, J = 8.5 Hz), 6.54 (s, 1H)
141 .	H-3	CH2	0	12.88 (s, 1H), 11.51 (s, 1H), 8.21 (d, 1H, J = 2.1 Hz), 8.20 (d, 2H, J = 9.3 Hz), 7.95 (dd, 1H, J = 8.1 Hz, 2.1 Hz), 7.92(s, 1H), 7.80 (d, 2H, J = 9.3 Hz), 7.72 (d, 1H, J = 8.1 Hz), 7.46 (t, 1H, J = 2.1 Hz), 3.74 (d, 1H, J = 2.1 Hz)
142	H-4	NMe	0	9.48 (bs, 1H), 8.21 (s, 1H), 8.19 (dd, 4H, J = 13.2 Hz, 7.8 Hz), 7.94 (d, 1H, J = 6.6 Hz), 7.89 (s, 1H), 7.72 (d, 1H, J = 8.1 Hz), 6.47 (s, 1H), 2.71 (d, 3H, J = 4.8 Hz)
143	H-5	О	S	12.91 (s, 1H), 8.21 - 8.24 (m, 3H), 7.93 - 8.01 (m, 4H), 7.72 (d, 1H, J = 8.2 Hz), 6.57 (s, 1H)

Example 144, 145

[0082]

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(Process 1)

[0083] To a solution of the compound (8)(0.2 g) prepared in accordance to Example 139 - Process 1 in DMF was added sodium hydride (32 mg) in an ice bath and the reaction solution was stirred at room temperature for 30 min. To the solution was added methyl iodide (0.2 ml) and then the reaction mixture was stirred for one hour. The reaction mixture was quenched with iced water and extracted with ethyl acetate. After evaporation of the solvent under reduced pressure, the residue was purified with a column chromatography (hexane - ethyl acetate; 4:1) to give 100 mg of the compound (11) and 33 mg of the compound (12).

45 Compound (11)

[0084] 1 H NMR(DMSO-d₆, δ ppm) 10.12 (s, 1H), 8.22 (d, 1H, J = 2.1 Hz), 8.07 (d, 2H, J = 8.1 Hz), 8.03 (s, 1H), 7.97 (dd, 1H, J = 8.1 Hz, 2.1 Hz), 7.89 (d, 2H, J = 8.4 Hz), 7.72 (d, 1H, J = 8.4 Hz), 3.63 (s, 3H).

50 Compound (12)

[0085] 1 H NMR(CDCl₃, δ ppm) 10.16 (s, 1H), 8.49 (d, 2H, J = 8.0 Hz), 7.97 (d, 2H, J = 8.0 Hz), 7.61 (d, 1H, J = 8.2 Hz), 7.65 (d, 1H, J = 2.2 Hz), 7.27 (dd, 1H, J = 8.2 Hz, 2.2 Hz), 6.67 (s, 1H), 3.78 (s, 3H).

55 (Process 2)

[0086] To a solution of the compound (11) (84 mg), and rhodanine (32 mg) in toluene (4 ml) were added 1M piperidine-toluene solution (20 µl) and 1M acetic acid-toluene (20 µl), and then the reaction mixture was refluxed for one hour.

After cooling, filtration of the precipitated crystal gave 77 mg of compound (I-1). ¹H NMR(DMSO-d₆, δ ppm) 13.85 (bs, 1H), 8.21(d, 1H, J = 1.8 Hz), 8.003 (s, 1H), 7.97 (dd, 1H, J = 8.7 Hz, 2.1 Hz), 7.83 (d, 2H, J = 8.1 Hz), 7.76 (d, 2H, J = 8.1 Hz), 7.72 (s, 1H), 7.71 (d, 1H, J = 8.7 Hz), 3.65 (s, 3H).

To a solution of the compound (12) (42 mg), and rhodanine (16 mg) in toluene (2 ml) were added 1M piperidine-toluene solution (10 μ l) and 1M acetic acid-toluene (10 μ l), and then the reaction mixture was refluxed for two hours. After cooling, filtration of the precipitated crystal gave 36 mg of compound (I-2).

 1 H NMR(DMSO-d₆, δ ppm) 13.90 (bs, 1H), 8.36 (d, 2H, J = 8.5 Hz), 7.93 (d, 1H, J = 1.9 Hz), 7.83 (d, 1H, J = 8.2 Hz), 7.72 (d, 2H, J = 8.5 Hz), 7.70 (s, 1H), 7.62 (dd, 1H, J = 8.2 Hz, 1.9 Hz), 3.75 (s, 3H).

10 Example 146, 147, 148

[0087]

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$$H_0CO_2C$$
 N_1
 N_1
 N_2
 N_3
 N_4
 N_4

[0088] The compound (A-12)(120 mg) prepared in a manner of Example 1 was dissolved in dioxane (5 ml) and 1N sodium hydroxide (5 ml) and the reaction solution was stirred at room temperature for 30 min. And then the mixture was acidified with 1N hydrochloric acid (5 ml) and evaporated under reduced pressure. The residue was washed with water and recrystallization from DMF-methanol obtained 72 mg of (J-1).

¹H NMR (DMSO-d₆, δ ppm): 8.20 (d, 2H, J = 8.5 Hz), 7.98 (s, 4H), 7.74 (s, 1H), 7.64 (d, 2H, J = 8.5 Hz), 7.22 (s, 1H). **[0089]** Neutralization of compound (I-1) with one equivalent of sodium hydroxide obtained (J-2) ¹H NMR (DMSO-d₆, δ ppm): 13.92 (bs, 1H), 12.98 (s, 1H), 8.25 (d, 2H, J = 8.4 Hz), 8.01 - 8.10 (m, 4H), 7.92 (s, 1H),

¹H NMR (DMSO-d₆, δ ppm): 13.92 (bs, 1H), 12.98 (s, 1H), 8.25 (d, 2H, J = 8.4 Hz), 8.01 - 8.10 (m, 4H), 7.92 (s, 1 7.77 (d, 2H, J = 8.4 Hz), 7.71 (s, 1H).

Neutralization of compound (J-1) with two equivalents of sodium hydroxide obtained (I-3)

 1 H NMR (DMSO-d₆, δ ppm): 8.20 (d, 2H, J = 8.1 Hz), 7.93 (dd, 4H, J = 11.4 Hz, 8.4 Hz), 7.71 (s, 1H), 7.61 (d, 2H, J = 8.1 Hz), 7.21 (s, 1H).

Example 149

[0090]

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(Process 1)

[0091] To a solution of compound (3)(10 g) synthesized in Example 1-Process 2 in tert-buthanol (200 ml) and dioxane (66 ml) was added triethylamine (5.6 ml) and diphenylphosphoryl azide (8.63 ml), and the reaction solution was refluxed for 2 hours. After evaporation of the solvent under reduced pressure, water was added to the mixture and extracted with ethyl acetate. After evaporation of the solvent under reduced pressure, the residue was purified with recrystallization (ethyl acetate) to yield 4.41 g of the compound (13).

¹H NMR(DMSO-d₆, δ ppm) 12.50 (bs, 1H), 9.78 (s, 1H), 7.69 (s, 1H), 7.61 (d, 2H, J = 9.0 Hz), 7.51 (d, 2H, J = 9.0 Hz), 1.49 (s, 9H).

(Process 2)

[0092] The compound (13)(3.15 g) was dissolved in trifluoroacetic acid (15 ml) and the solution was stirred at room temperature for 15 min. After evaporation of the solvent under reduced pressure, recrystallization of the residue from diisoprpyl ether gave 2.10g of (14).

¹H NMR(DMSO-d₆, δ ppm) 12.29 (bs, 1H), 7.60 (s, 1H), 7.29 (d, 2H, J = 8.7 Hz), 6.67 (d, 2H, J = 8.7 Hz).

(Process 3)

[0093] To a solution of the compound (14)(220 mg) in dioxane (50 ml) were added pyridine (121 µl) and 4-n-butyl benzoyl chloride (187 µl) and the reaction solution was stirred at room temperature for 3 hours. After evaporation of the solvent, to the residue were added methanol (6 ml) and water (2 ml) and then the precipitated crystal was filtrated. Recrystallization from methanol yielded 232 mg of the compound (K-1).

 1 H NMR(DMSO-d₆, δ ppm) 12.56 (bs, 1H), 10.47 (s, 1H), 7.75 (s, 1H), 7.78 (d, 2H, J = 8.7 Hz), 7.63 (d, 2H, J = 8.7 Hz), 2.67 (t, 2H, J = 7.5 Hz), 1.59 (quant, 2H, J = 7.5 Hz), 1.32 (sexth, 2H, J = 7.2 Hz), 0.91 (t, 3H, J = 7.5 Hz) [0094] Compound (K-2) to Compound (K-29) were synthesized in a manner similar to above-mentioned method. Their physical data were shown in Tables 19-22.

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Table 19

× ÎN SYNH

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Exampl eNo.	Com pound No.	x	Т	¹ H-NMR (δ) ppm (DMSO d-6)
150	K-2		0	12.56 (bs, 1H), 10.73 (s, 1H), 8.61 (s, 1H), 8.01 - 8.12 (m, 6H), 7.78 (s, 1H), 7.63 - 7.69 (m, 4H)
151	K-3	CI	0	10.35 (s, 1H), 7.95 (d, 2H, J = 8.8 Hz), 7.75 (s, 1H), 8.52 –7.75 (m, 4H), 7.08 (d, 1H, J = 8.2 Hz), 6.15 (s, 2H)
152	. K-4		0	12.55 (bs, 1H), 10.39 (s, 1H), 7.98 (d, 2H, J = 8.9 Hz), 7.96 (d, 2H, J = 8.9 Hz), 7.75 (s, 1H), 7.59 (d, 2H, J = 8.9 Hz), 7.32 - 7.50 (m, 5H), 7.16 (d, 2H, J = 8.9 Hz), 8.22 (s, 2H)
153	K-5	Ph-	Ο	12.56 (bs, 1H), 10.59 (s, 1H), 8.08 (d, 2H, J=8.5 Hz), 7.86 (d, 2H, J=8.2 Hz), 7.76 - 7.79 (m, 2H), 7.76 (s, 1H), 7.62 (d, 2H, J=8.8 Hz), 7.50 - 7.55 (m, 2H), 7.41 - 7.46 (m, 1H)
154	K-6	n-Hex	0	12.56 (bs, 1H), 10.47 (s, 1H), 7.97 (d, 2H, J=9.0 Hz), 7.89 (d, 2H, J=8.1 Hz), 7.76 (s, 1H), 7.63 (d, 2H, J=9.0 Hz), 7.35 (d, 2H, J=8.1 Hz), 2.66 (t, 2H, J=7.2 Hz), 1.60 (quant, 2H, J=7.2 Hz), 1.29 (bs, 6H), 0.84 - 0.88 (m, 3H)
155	K-7	EtO-	0	12.55 (bs, 1H), 10.38 (s, 1H), 7.96 (d, 4H, J = 9.0 Hz), 7.75 (s, 1H), 7.69 (d, 2H, J = 9.0 Hz), 7.06 (d, 2H, J = 9.0 Hz), 4.12 (q, 2H, J = 6.9 Hz), 1.36 (t, 3H, J = 6.9 Hz)
156	K-8	n-Oxt—	0	12.56 (bs, 1H), 10.46 (s, 1H), 7.97 (d, 2H, J=8.7 Hz), 7.89 (d, 2H, J=8.4 Hz), 7.75 (s, 1H), 7.60 (d, 2H, J=8.4 Hz), 7.36 (d, 2H, J=8.7 Hz), 2.66 (t, 2H, J=7.2 Hz), 1.58 - 1.62 (m, 2H), 1.24 - 1.27 (m, 8H), 0.83 -0.88 (m, 3H)
157	K-9	Me Me	0	12.55 (bs, 1H), 10.42 (s, 1H), 7.97 (d, 2H, J = 8.7 Hz), 7.70 - 7.76 (m, 3H), 7.60 (d, 2H, J = 8.7 Hz), 7.30 (d, 2H, J = 8.1 Hz), 2.32 (s, 1H), 2.31 (s, 1H)
158	K-10	F ₃ C-(0	12.55 (bs, 1H), 10.75 (s, 1H), 8.17 (d, 2H, J=8.0 Hz), 7.97 (d, 2H, J=8.8 Hz), 7.93 (t, 1H, J=8.0 Hz), 7.76 (s, 1H), 7.63 (d, 2H, J=8.8 Hz)

Table 20

				
Exampl eNo.	Com pound No.	х	T.	¹ H-NMR (δ) ppm (DMSO d-6)
159	K-11	t-Bu—	0	12.56 (bs, 1H), 10.47 (s, 1H), 7.97 (d 2H, J = 9.0 Hz), 7.90 (d, 2H, J = 8.4 Hz) 7.76 (s, 1H), 7.60 (d, 2H, J = 9.0 Hz), 7.57 (d, 2H, J = 8.4 Hz), 1.33 (s, 9H)
160	K-12	CI	0	12.57 (bs, 1H), 10.69 (s, 1H), 7.99 (d, 2H, J = 2.1 Hz), 7.94 (d, 2H, J = 9.0 Hz), 7.89 (t, 1H, J = 1.8 Hz), 7.76 (s, 1H), 7.63 (d, 2H, J = 9.0 Hz)
161	K-13	Et-	0	12.55 (bs, 1H), 10.46 (s, 1H), 7.97 (d, 2H, J = 8.8 Hz), 7.90 (d, 2H, J = 8.1 Hz), 7.76 (s, 1H), 7.50 (d, 2H, J = 8.8 Hz), 7.38 (d, 2H, J = 8.1 Hz), 2.69 (q, 2H, J = 7.7 Hz), 1.22 (t, 3H, J = 7.7 Hz)
162	K-14	CI	0	12.59 (bs, 1H), 10.67 (s, 1H), 8.23 (d, 1H, J = 2.1 Hz), 7.95 (d, 1H, J = 8.4 Hz), 7.94 (d, 2H, J = 8.4 Hz), 7.84 (d, 2H, J = 8.4 Hz), 7.76 (s, 1H), 7.62 (d, 1H, J = 9.0 Hz)
163	K-15	Me ~	0	12.55 (bs, 1H), 10.45 (s, 1H), 7.97 (d, 2H, J=8.7 Hz), 7.89 (d, 2H, J=8.4 Hz), 7.75(s, 1H), 7.60 (d, 2H, J=8.7 Hz), 7.35 (d, 1H, J=8.4 Hz), 2.37 (s, 3H)
164	K-16	Me	S	13.79 (bs, 1H), 10.53 (s, 1H), 7.98 (d, 2H, J = 8.8 Hz), 7.74 - 7.78 (m, 2H), 7.62 (d, 2H, J = 8.8 Hz), 7.61 (s, 1H), 7.24 - 7.44 (m, 2H), 2.41 (s, 3H)
165	K-17	t-Bu HO- t-Bu	S	13.79 (bs, 1H), 10.36 (s, 1H), 7.93 (d, 2H, J = 8.7 Hz), 7.68 (s, 1H), 7.60 (d, 2H, J = 8.7 Hz), 7.59 (d, 1H, J = 6.9 Hz), 5.75 (s, 1H), 1.44 (s, 1H)
166	K-18	t-Bu	S	10.50 (s, 1H), 7.98 (d, 2H, J = 8.7 Hz), 7.90 (d, 2H, J = 8.7 Hz), 7.61 (d, 2H, J = 8.7 Hz), 7.59 (d, 2H, J = 8.5 Hz), 7.55 (s, 1H), 1.33 (s, 9H)
167	K-19	Ph—	S	13.79 (bs, 1H), 10.62 (s, 1H), 8.09 (d, 2H, J=8.5 Hz), 7.86 (d, 2H, J=8.5 Hz), 7.77 (d, 2H, J=8.5 Hz), 7.63 (d, 2H, J=8.5 Hz), 7.62 (s, 1H), 7.50 - 7.55 (m, 2H), 7.41 - 7.46 (m, 1H)
168	K-20		S	13.81 (bs, 1H), 10.77 (s, 1H), 8.61 (s, 1H), 8.02 - 8.13 (m, 6H), 7.63 - 7.68 (m, 5H)

Table 21

Exampl eNo.	Com pound No.	X.	Т	¹ H-NMR (δ) ppm (DMSO d-6)
169	K-21		S	13.79 (bs, 1H), 10.39 (s, 1H), 7.97 (d, 2H, J = 8.8 Hz), 7.61 (s, 1H), 7.60 (d, 2H, J = 8.8 Hz), 7.59 (d, 1H, J = 9.9 Hz), 7.53 (d, 1H, J = 1.8 Hz), 7.07 (d, 1H, J = 8.2 Hz), 6.15 (s, 2H)
170	K-22	Et-	s	13.79 (s, 1H), 10.49 (s, 1H), 7.99 (d, 2H, J = 8.8 Hz), 7.91 (d, 2H, J = 8.2 Hz), 7.61 (d, 2H, J = 8.8 Hz), 7.61 (s, 1H), 7.38 (d, 2H, J = 8.2 Hz), 2.70 (q, 2H, J = 7.4 Hz), 1.22 (t, 3H, J = 7.4 Hz)
171	K-23	n-Bu	S	13.79 (bs, 1H), 10.49 (s, 1H), 7.99 (d, 2H, J = 8.8 Hz), 7.89 (d, 2H, J = 8.2 Hz), 7.61 (d, 2H, J = 8.8 Hz), 7.61 (s, 1H), 7.37 (d, , 2H, J = 8.2 Hz), 2.37 (t, 2H, J = 7.4 Hz), 1.57 - 1.64 (m, 2H), 1.26 - 1.38 (m, 2H), 0.91 (t, 3H, J = 7.1 Hz)
172	K-24	F ₃ C-{	8	13.80 (bs, 1H), 10.79 (s, 1H), 8.17 (d, 2H, J=8.4 Hz), 7.99 (d, 2H, J=8.7 Hz), 7.94 (d, 2H, J=8.4 Hz), 7.64 (d, 1H, J=8.7 Hz), 7.65 (s, 1H)
173	K-25	CI	s	13.80 (bs, 1H), 10.71 (s, 1H), 7.99 (d, 2H, J = 1.6 Hz), 7.95 (d, 2H, J = 8.5 Hz), 7.89 (t, 1H, J = 1.9 Hz), 7.63 (d, 2H, J = 8.5 Hz), 7.61 (s, 1H),
174	K-26	Me —	s	13.78 (bs, 1H), 10.48 (s, 1H), 7.98 (d, 2H, J=9.0 Hz), 7.89 (d, 2H, J=8.1 Hz), 7.61 (d, 2H, J=9.0 Hz), 7.61 (s, 1H), 7.36 (d, 2H, J=8.1 Hz), 2.40 (s, 3H)

Table 22

Com

pound

No.

K-27

K-28

K-29

X

Exampl

eNo.

175

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177

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	Q T
	NH
Be N	S NH
.,	Ť

T

0

S

(m, 1H)

¹H-NMR (δ) ppm

(DMSO d-6)

12.57 (bs, 1H), 10.88 (s, 1H), 8.53 (s,

1H), 8.15 - 8.19 (m, 2H), 8.07 (d, 2H, J

 $= 8.8 \,\mathrm{Hz}$), 7.78 (s, 1H), 7.65 (d, 2H, J =

8.8 Hz), 7.50 - 7.55 (m, 2H), 7.40 - 7.45

12.58 (bs, 1H), 10.91 (s, 1H), 8.69 (s, 1H), 8.48 (d, 1H, J = 1.9 Hz), 8.15 (dd,

1H, J = 8.8 Hz, 1.9 Hz), 8.04 (d, 2H, J

 $= 8.8 \,\mathrm{Hz}$), $7.78 \,\mathrm{(d, 1H, J} = 8.8 \,\mathrm{Hz}$), $7.76 \,\mathrm{(d, 2H, J} = 8.8 \,\mathrm{Hz}$

1H), 8.50 (d, 1H, J = 1.9 Hz), 8.16 (dd,

[1H, J = 8.5 Hz, 1.9 Hz), 8.08 (d, 2H, J)

= 8.8 Hz), 7.80 (d, 1H, J = 8.5 Hz), 7.67 (d, 1H, J = 8.8 Hz), 7.63 (s, 1H)

(s, 1H), 7.64 (d, 1H, J = 8.8 Hz) 13.82 (bs, 1H), 10.95 (s, 1H), 8.72 (s,

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Example 178

[0095]

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(Process 1)

[0096] To a solution of the compound (13)(1.7 g) synthesized in Example 149-Process 1 in dioxane (200 ml) was

added 10% palladium-carbon (0.7 g) and the reaction mixture was stirred under hydrogen atmosphere. Filtration of palladium-carbon and evaporation of the solvent under reduced pressure obtained 1.39 g of the compound (15). 1 H NMR (CDCl₃, δ ppm): 8.38 (s, 1H), 7.32 (d, 2H, J = 8.4 Hz), 7.26 (s, 1H), 7.15 (d, 2H, J = 8.4 Hz), 6.54 (s, 1H), 4.50 (dd, 1H, J = 9.3 Hz, 3.9 Hz), 3.46 (dd, 1H, J = 14.4 Hz, 3.9 Hz), 3.22 (dd, 1H, J = 14.4 Hz, 9.3 Hz), 1.52 (s, 9H).

(Process 2)

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[0097] A solution of the compound (15)(4.23 g) in dichloromethane (20 ml) and trifluoroacetic acid (10 ml) was stirred at room temperature for 15 min. After evaporation of the solvent under reduced pressure, the residue was recrystallized from diisopropyl ether to give 3.8 g of the compound (16).

 1 H NMR(DMSO-d₆, δ ppm) 7.25 (d, 2H, J = 8.4 Hz), 7.09 (d, 2H, J = 8.4 Hz), 4.90 (dd, 1H, J = 8.7 Hz, 4.5 Hz), 4.35 (dd, 1H, J = 14.4 Hz, 4.5 Hz), 3.12 (dd, 1H, J = 14.4 Hz, 8.7 Hz).

(Process 3)

[0098] To a solution of the compound (16)(220 mg) in dioxane (50 ml) were added pyridine (121µl) and 3,5-dichlorobezoyl chloride (180µl) and then the reaction solution was stirred at room temperature for 3 hours. After evaporation of the solvent under reduced pressure, the residue was purified with a column chromatography (hexane-ethyl acetate; 2:1) to yield 103 mg of the compound (L-1).

 1 H NMR(DMSO-d₆, δ ppm) 12.02 (bs, 1H), 10.41 (s, 1H), 7.97 (d, 2H, J = 1.9 Hz), 7.87 (t, 1H, J = 1.9 Hz), 7.69 (d, 2H, J = 8.5 Hz), 7.24 (d, 2H, J = 8.5 Hz), 4.91 (dd, 1H, J = 8.8 Hz, 4.4 Hz), 3.36 (dd, 1H, J = 14.3 Hz, 4.4 Hz), 3.12 (dd, 1H, J = 14.3 Hz, 8.8 Hz)

[0099] Compound (L-2) to Compound (L-3) were synthesized in a manner similar to above-mentioned method. Their physical data were shown in Table 23.

Table 23

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Exampl eNo.	Com pound No.	х	Т	¹H-NMR (ŏ) ppm (DMSO d-6)
179	L-2	F₃C-⟨¯ <mark>></mark>	0	12.04 (bs, 1H), 10.47 (s, 1H), 8.14 (d, 2H, J = 8.2 Hz), 7.92 (d, 2H, J = 8.2 Hz), 7.72 (d, 2H, J = 8.5 Hz), 7.25 (d, 2H, J = 8.5 Hz), 4.92 (dd, 1H, J = 8.9 Hz, 4.4 Hz), 3.36 (dd, 1H, J = 14.4 Hz, 4.4 Hz), 3.12 (dd, 1H, J = 14.4 Hz, 8.9 Hz)
180	L-3	n-Bu ~	0	12.05 (bs, 1H), 10.56 (s, 1H), 7.86 (d, 2H, J = 8.4 Hz), 7.71 (d, 2H, J = 8.7 Hz), 7.34 (d, 2H, J = 8.7 Hz), 7.22 (d, 2H, J = 8.4 Hz), 4.91 (dd, 1H, J = 9.0 Hz, 4.5 Hz), 3.34 (dd, 1H, J = 13.8 Hz, 4.5 Hz), 3.10 (dd, 1H, J = 13.8 Hz, 9.0 Hz), 2.66 (t, 2H, J = 7.5 Hz), 1.58 (quant, 2H, J = 8.1 Hz), 1.26 - 1.37 (m, 2H), 0.91 (t, 3H, J = 7.5 Hz)

Example 181

[0100]

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(Process 1)

[0101] A mixture of the compound (3)(3 g) prepared in Example 1-Process 2 in dioxane (20 ml) and thionyl chloride (10 ml) was heated and dissolved at 100°C. Evaporation of the solvent under reduced pressure gave carboxylic acid chloride. The carboxylic acid chloride was not purified and used in further reactions. After a solution of the carboxylic acid chloride (143 mg), ammonium thiocyanate (42 mg) in dioxane (25 ml) was stirred at room temperature for 15 min, 3,4-dichloroaniline was added thereto. The reaction solution was stirred at room temperature for 1 hour and the solvent was evaporated under reduced pressure. To the residue were added methanol (6 ml) and water (2 ml) and the precipitated crystal was filtrated. Recrystallization from DMF obtained 104 mg of the compound (M-1).

1H NMR (DMSO-d₆, δ ppm); 13.91 (bs, 1H), 12.49 (s, 1H), 11.83 (s, 1H), 8.07 - 8.12 (m, 3H), 7.63 - 7.76 (m, 5H).

10102] The following compound was synthesized in a manner similar to above-mentioned method.

Abbreviation described below are used.

Me:methyl, Et:ethyl, nPr:n-propyl, iPr:isobutyl, nBu:n-butyl, iBu:isobutyl, tBu:t-butyl, Pen:n-pentyl, Ph:phenyl, Bn:benzyl, Bz:benzoyl, Ac:acetyl, diF:difluoro, diCl:dichloro, diBr:dibromo, dil:diiodo, diMe:dimethyl, thiophene:thiophene, thienyl:thienyl, Py:pyridil, pyridine:pyridine, pyridinium: pyridinium, Quinoline: Quinoline, Benzodioxole: Benzodioxole, pyrazinyl: pyrrolyl: pyrrolyl: pyrrolyl: pyrrole: pyrrole, oxide: oxide, indole: indole, imidazolyl: imidazolyl, morpholino: morpholino, piperazinyl: piperazinyl; furyl: furyl, furan: furan, thiazolyl: thiazolyl, benzodioxin: benzodioxin, and benzo [b]furan: benzo[b]furan (Compound No: R⁶, R⁷, M, T) = (N-1: Ph, Me, S, S), (N-3: 4-Br-Ph, Me, S, S), (N-4: 4-Me-Ph, Me, S, S), (N-5: 4-Ph-

Ph, Me, S, S), (N-6: 4-OMe-Ph, Me, S, S), (N-7: 4-tBu-Ph, Me, S, S), (N-8: 4-COOMe-Ph, Me, S, S), (N-9: 4-Pen-Ph, Me, S, S), (N-10: 4-NO₂-Ph, Me, S, S), (N-11: 5-Cl-thiophene-2-yl, Me, S, S), (N-12: 3-Thienyl, Me, S, S), (N-13: 2-Py, Me, S, S), (N-14: 3-Py, Me, S, S), (N-15: 4-Py, Me, S, S), (N-16: 3,4-diF-Ph, Me, S, S), (N-17: 5-Br-thiophene-2-yl, Me, S, S), (N-18: 4-CONH₂-Ph, Me, S, S), (N-19: 4-CON(Me)H-Ph, Me, S, S), (N-20: 4-CON(Me)₂-Ph, Me, S, S), (N-21: 4-iPrOC(=O)-Ph, Me, S, S), (N-22: 4-nBuOC(=O)-Ph, Me, S, S), (N-23: 6-Me-pyridine-3-yl, Me, S, S), (N-24: Quinoline-3-yl, Me, S, S), (N-25: 4-NH₂-Ph, Me, S, S), (N-26: 4-N(Ac)H-Ph, Me, S, S), (N-27: 4-OH-Ph, Me, S, S), (N-28: 3,4-di (OH)₂-Ph, Me, S, S), (N-29: 3,4-di(NH₂)-Ph, Me, S, S), (N-30: 3:4-[N(Ac)H]₂-Ph, Me, S, S), (N-31: 4-SH-Ph, Me, S, S), (N-32: 4-SMe-Ph, Me, S, S), (N-33: 3,4-diBr-Ph, Me, S, S), (N-34: 4-N(Me)H-Ph, Me, S, S), (N-35: 4-N(Me)₂-Ph, Me, S, S), (N-36: 4-N(Me)₃+Ph, Me, S, S), (N-37: 4-Et-Ph, Me, S, S), (N-38: 4-iPr-Ph, Me, S, S), (N-39: 4-nPr-Ph, Me, S, S), (N-40: 4-nBu-Ph, Me, S, S), (N-41: 4-iBu-Ph, Me, S, S), (N-42: 3,4-diMe-Ph, Me, S, S), (N-43: 1,3-Benzodioxole-5-yl, Me, S, S), (N-41: 4-iBu-Ph, Me, S, S), (N-45: N-Me-pyridinium-3-yl, Me, S, S), (N-46: 5-Me-Pyridine-2-yl, Me, S, S), (N-47: 2-Pyrazinyl, Me, S, S), (N-48: 3-Pyrrolyl, Me, S, S), (N-50: 4-CH₃-Ph, Me, S, S), (N-56: 4-CN-Ph, Me, S, S), (N-57: 4-CHO-Ph, Me, S, S), (N-58: 3-Cl-Ph, Me, S, S), (N-59: 3-Br-Ph, Me, S, S), (N-60: 3-F-Ph, Me, S, S), (N-57: 4-CHO-Ph, Me, S, S), (N-58: 3-Cl-Ph, Me, S, S), (N-59: 3-Br-Ph, Me, S, S), (N-60: 3-F-Ph, Me, S, S), (N-57: 4-CHO-Ph, Me, S, S), (N-58: 3-Cl-Ph, Me, S, S), (N-59: 3-Br-Ph, Me, S, S), (N-60: 3-F-Ph, Me, S, S), (N-57: 4-CHO-Ph, Me, S, S), (N-58: 3-Cl-Ph, Me, S, S), (N-59: 3-Br-Ph, Me, S, S), (N-60: 3-F-Ph, Me, S, S), (N-57: 4-CHO-Ph, Me, S, S), (N-58: 3-Cl-Ph, Me, S, S), (N-59: 3-Br-Ph, Me, S, S), (N-60: 3-F-Ph, Me, S, S), (N-57: 4-CHO-Ph, Me, S, S), (N-58: 3-Cl-Ph, Me, S, S), (N-59: 3-Br-Ph, Me, S, S), (N-

61: 3-I-Ph, Me, S, S), (N-62: 4-I-Ph, Me, S, S), (N-63: 4-OCF₃-Ph, Me, S, S), (N-64: 3,4-dil-Ph, Me, S, S), (N-65: Indole-6-yl, Me, S, S), (N-66: 1-Ac-indole-6-yl, Me, S, S), (N-67: 1-Me-indole-6-yl, Me, S, S), (N-68: 4-(1-Imidazolyl)-Ph, Me, S, S), (N-69: 4-Morphorino-Ph, Me, S, S), (N-70: 4-(1-Piperazinyl)-Ph, Me, S, S), (N-71: 2:5-diMe-thiophene-3-yl, Me, S, S), (N-72: 2-Furyl, Me, S, S), (N-73: 5-Me-furan-2-yl, Me, S, S), (N-74: 5-Me-furan-2-yl, Me, S, S), (N-75: 2-Thiazolyl, Me, S, S), (N-76: 1:4-Benzodioxin-6-yl, Me, S, S), (N-77: Benzo[b]furan-2-yl, Me, S, S), (N-78: 4-NH2CH2-Ph, Me, S, S), (N-79: 4-N(Me)HCH₂-Ph, Me, S, S), (N-80: 4-N(Me)₂CH₂-Ph, Me, S, S), (N-81: 6-Cl-pyridine-3-yl, Me, S, S), (N-82: 5,6-diCl-pyridine-3-yl, Me, S, S), (N-83: 5-Cl-pyridine-2-yl, Me, S, S), (N-84: 4:5-diCl-pyridine-2-yl, Me, S, 85: 4-CICH₂-Bn, Me, S, S), (N-86: Bn, Me, S, S), (N-87: 4-CI-Bn, Me, S, S), (N-88: 4-Br-Bn, Me, S, S), (N-89: 4-F-Bn, Me, S, S), (N-90: 3,4-diCl-Bn, Me, S, S), (N-91: 3;4-diBr-Bn, Me, S, S), (N-92: 3,4-diF-Bn, Me, S, S), (N-93: 4-Cl-Bz, Me, S, S), (N-94: 3,4-diCl-Bz, Me, S, S), (N-95: 4-Br-Bz, Me, S, S), (N-96: 3,4-diBr-Bz, Me, S, S), (N-97: 4-F-Bz, Me, S, S), (N-98: 3,4-diF-Bz, Me, S, S), (N-99: 4-NO₂-Bn, Me, S, S), (N-100: 4-CN-Bn, Me, S, S), (N-101: Ph, Et, S, S), (N-102: 4-F-Ph, Et, S, S), (N-103: 4-Br-Ph, Et, S, S), (N-104: 4-Me-Ph, Et, S, S), (N-105: 4-Ph-Ph, Et, S, S), (N-106: 4-OMe-Ph, Et, S, S), (N-107: 4-tBu-Ph, Et, S, S), (N-108: 4-COOMe-Ph, Et, S, S), (N-109: 4-Pen-Ph, Et, 110: 4-NO2-Ph, Et, S, S), (N-111: 5-Cl-thiophene-2-yl, Et, S, S), (N-112: 3-Thienyl, Et, S, S), (N-113: 2-Py, Et, S, S), (N-114: 3-Py, Et, S, S), (N-115: 4-Py, Et, S, S), (N-116: 3,4-diF-Ph, Et, S, S), (N-117: 5-Br-thiophene-2-yl, Et, S, S), (N-118: 4-CONH₂-Ph, Et, S, S), (N-119: 4-CON(Me)H-Ph, Et, S, S), (N-120: 4-CON(Me)₂-Ph, Et, S, S), (N-121: 4-iPrOC (=O)-Ph, Et, S, S), (N-122: 4-nBuOC(=O)-Ph, Et, S, S), (N-123: 6-Me-pyridine-3-yl, Et, S, S), (N-124: Quinoline-3-yl, Et, S, S), (N-125: 4-NH₂-Ph, Et, S, S), (N-126: 4-N(Ac)H-Ph, Et, S, S), (N-127: 4-OH-Ph, Et, S, S), (N-128: 3,4-di(OH)₂-Ph, Et, S, S), (N-129: 3,4-di(NH₂)-Ph, Et, S, S), (N-130: 3:4-[N(Ac)H]₂-Ph, Et, S, S), (N-131: 4-SH-Ph, Et, S, S), (N-132: 4-SMe-Ph, Et, S, S), (N-133: 3,4-diBr-Ph, Et, S, S), (N-134: 4-N(Me)H-Ph, Et, S, S), (N-135: 4-N(Me)₂-Ph, Et, S, S), (N-136: 4-N(Me)₃+-Ph, Et, S, S), (N-137: 4-Et-Ph, Et, S, S), (N-138: 4-iPr-Ph, Et, S, S), (N-139: 4-nPr-Ph, Et, S, S), (N-140: 4-nBu-Ph, Et, S, S), (N-141: 4-iBu-Ph, Et, S, S), (N-142: 3,4-diMe-Ph, Et, S, S), (N-143: 1,3-Benzodioxole-5-yl, Et, S, S), (N-144: N-Me-pyridinium-4-yl, Et, S, S), (N-145: N-Me-pyridinium-3-yl, Et, S, S), (N-146: 5-Me-Pyridine-2-yl, Et, S, S), (N-147: 2-Pyrazinyl, Et, S, S), (N-148: 3-Pyrrolyl, Et, S, S), (N-149: 1-Me-pyrrole-3-yl, Et, S, S), (N-150: Pyridine N-oxide-4-yl, Et, S, S), (N-151: Pyridine N-oxide-3-yl, Et, S, S), (N-152: 6-OH-pyridine-3-yl, Et, S, S), (N-153: 6-SH-pyridine-3-yl, Et, S, S), (N-154: 1-Ac-pyrrole-3-yl, Et, S, S), (N-155: 4-CF₃-Ph, Et, S, S), (N-156: 4-CN-Ph, Et, S, S), (N-157: 4-CHO-Ph, Et, S, S), (N-158: 3-Cl-Ph, Et, S, S), (N-159: 3-Br-Ph, Et, S, S), (N-160: 3-F-Ph, Et, S, S), (N-161: 3-I-Ph, Et, S, S), (N-162: 4-I-Ph, Et, S, S), (N-163: 4-OCF₃-Ph, Et, S, S), (N-164: 3,4-dil-Ph, Et, S, S), (N-165: Indole-6-yl, Et, S, S), (N-166: 1-Ac-indole-6-yl, Et, S, S), (N-167: 1-Me-indole-6-yl, Et, S, S), (N-168: 4-(1-Imidazolyl) -Ph, Et, S, S), (N-169: 4-Morphorino-Ph, Et, S, S), (N-170: 4-(1-Piperazinyl)-Ph, Et, S, S), (N-171: 2:5-diMe-thiophene-3-yl, Et, S, S), (N-172: 2-Furyl, Et, S, S), (N-173: 5-Me-furan-2-yl, Et, S, S), (N-174: 5-Me-furan-2-yl, Et, S, S), (N-175: 2-Thiazolyl, Et, S, S), (N-176: 1:4-Benzodioxin-6-yl, Et, S, S), (N-177: Benzo[b]furan-2-yl, Et, S, S), (N-178: 4-NH₂CH₂-Ph, Et, S, S), (N-179: 4-N(Me)HCH₂-Ph, Et, S, S), (N-180: 4-N(Me)₂CH₂-Ph, Et, S, S), (N-181: 6-Cl-pyridine-3-yl, Et, S, S), (N-182: 5,6-diCl-pyridine-3-yl, Et, S, S), (N-183: 5-Cl-pyridine-2-yl, Et, S, S), (N-184: 4:5-diCl-pyridine-2-yl, Et, S, S), (N-185: 4-CICH₂-Bn, Et, S, S), (N-186: Bn, Et, S, S), (N-187: 4-CI-Bn, Et, S, S), (N-188: 4-Br-Bn, Et, S, S), (N-189: 4-F-Bn, Et, S, S), (N-190: 3,4-diCl-Bn, Et, S, S), (N-191: 3,4-diBr-Bn, Et, S, S), (N-192: 3,4-diF-Bn, Et, S, S), (N-193: 4-Cl-Bz, Et, S, S), (N-194: 3,4-diCl-Bz, Et, S, S), (N-195: 4-Br-Bz, Et, S, S), (N-196: 3,4-diBr-Bz, Et, S, S), (N-197: 4-F-Bz, Et, S, S), (N-198: 3,4-diF-Bz, Et, S, S), (N-199: 4-NO₂-Bn, Et, S, S), (N-200: 4-CN-Bn, Et, S, S), (N-201: Ph, COOMe, S, S), (N-203: 4-Br-Ph, COOMe, S, S), (N-204: 4-Me-Ph, COOMe, S, S), (N-205: 4-Ph-Ph, COOMe, S, S), (N-206: 4-OMe-Ph, COOMe, S, S), (N-207: 4-tBu-Ph, COOMe, S, S), (N-208: 4-COOMe-Ph, COOMe, S, S), (N-208: 4-COOMe, S, S), (N-208: 4-CO 209: 4-Pen-Ph, COOMe, S, S), (N-210: 4-NO₂-Ph, COOMe, S, S), (N-211: 5-Cl-thiophene-2-yl, COOMe, S, S), (N-212: 3-Thienyl, COOMe, S, S), (N-213: 2-Py, COOMe, S, S), (N-214: 3-Py, COOMe, S, S), 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S), (N-470: Me, 4-(1-Piperazinyl)-Ph, S, S), (N-471: Me, 2:5-diMe-thiophene-3-yl, S, S), (N-472: Me, 2-Furyl, S, S), (N-473: Me, 5-Me-furan-2-yl, S, S), (N-474: Me, 5-Me-furan-2-yl, S, S), (N-475: Me, 2-Thiazolyl, S, S), (N-476: Me, 1: 4-Benzodioxin-6-yl, S, S), (N-477: Me, Benzo[b]furan-2-yl, S, S), (N-478: Me, 4-NH₂CH₂-Ph, S, S), (N-479: Me, 4-N (Me)HCH₂-Ph, S, S), (N-480: Me, 4-N(Me)₂CH₂-Ph, S, S), (N-481: Me, 6-CI-pyridine-3-yl, S, S), (N-482: Me, 5,6-diCIpyridine-3-yl, S, S), (N-483: Me, 5-Cl-pyridine-2-yl, S, S), (N-484: Me, 4:5-diCl-pyridine-2-yl, S, S), (N-485: Me, 4-CICH₂-Bn, S, S), (N-486: Me, Bn, S, S), (N-487: Me, 4-Cl-Bn, S, S), (N-488: Me, 4-Br-Bn, S, S), (N-489: Me, 4-F-Bn, S, S), (N-490: Me, 3,4-diCl-Bn, S, S), (N-491: Me, 3,4-diBr-Bn, S, S), (N-492: Me, 3,4-diF-Bn, S, S), (N-493: Me, 4-Cl-Bz, S, S), (N-494: Me, 3,4-diCl-Bz, S, S), (N-495: Me, 4-Br-Bz, S, S), (N-496: Me, 3,4-diBr-Bz, S, S), (N-497: Me, 4-F-Bz, S, S), (N-498: Me, 3,4-diF-Bz, S, S), (N-499: Me, 4-NO₂-Bn, 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(N-517: Et, 5-Br-thiophene-2-yl, S, S), (N-518: Et, 3,4-diF-Ph, S, S), (N-518: Et, 3-Br-thiophene-2-yl, S, S), (N-518: Et, 3,4-diF-Ph, S, S), (N-518: Et, 3-Br-thiophene-2-yl, S 518: Et, 4-CONH₂-Ph, S, S), (N-519: Et, 4-CON(Me)H-Ph, S, S), (N-520: Et, 4-CON(Me)₂-Ph, S, S), (N-521: Et, 4-iPrOC (=O)-Ph, S, S), (N-522: Et, 4-nBuOC(=O)-Ph, S, S), (N-523: Et, 6-Me-pyridine-3-yl, S, S), (N-524: Et, Quinoline-3-yl, S, S), (N-525: Et, 4-NH2-Ph, S, S), (N-526: Et, 4-N(Ac)H-Ph, S, S), (N-527: Et, 4-OH-Ph, S, S), (N-528: Et, 3,4-di(OH)2-Ph, S, S), (N-529: Et, 3,4-di(NH₂)-Ph, S, S), (N-530: Et, 3:4-[N(Ac)H]₂-Ph, S, S), (N-531: Et, 4-SH-Ph, S, S), (N-532: Et, 4-SMe-Ph, S, S), (N-533: Et, 3,4-diBr-Ph, S, S), (N-534: Et, 4-N(Me)H-Ph, S, S), (N-535: Et, 4-N(Me)2-Ph, S, S), (N-536: Et, 4-N(Me)₃+-Ph, S, S), (N-537: Et, 4-Et-Ph, S, S), (N-538: Et, 4-iPr-Ph, S, S), (N-539: Et, 4-nPr-Ph, S, S), (N-540: Et, 4-nBu-Ph, S, S), (N-541: Et, 4-iBu-Ph, S, S), (N-542: Et, 3,4-diMe-Ph, S, S), (N-543: Et, 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COOMe, 4-Morphorino-Ph, S, S), (N-670: COOMe, 4-(1-PiperazinyI)-Ph, S, S), (N-671: COOMe, 2:5-diMe-thiophene-3-yl, S, S), (N-672: COOMe, 2-Furyl, S, S), (N-673: COOMe, 5-Me-furan-2-yl, S, S), (N-674: COOMe, 5-Me-furan-2-yl, S, S), (N-675: COOMe, 2-Thiazolyl, S, S), (N-676: COOMe, 1:4-Benzodioxin-6-yl, S, S), (N-577: COOMe, Benzo[b] furan-2-yl; S, S), (N-678: COOMe, 4-NH₂CH₂-Ph, S, S), (N-679: COOMe, 4-N(Me)HCH₂-Ph, S, S), (N-680: COOMe, 4-N(Me)₂CH₂-Ph, S, S), (N-681: COOMe, 6-Cl-pyridine-3-yl, S, S), (N-682: COOMe, 5,6-diCl-pyridine-3-yl, S, S), (N-683: COOMe, 5-Cl-pyridine-2-yl, S, S), (N-684: COOMe, 4:5-diCl-pyridine-2-yl, S, S), (N-685: COOMe, 4-CICH₂-Bn, S, S), (N-686: COOMe, Bn, S, S), (N-687: COOMe, 4-CI-Bn, S, S), (N-688: COOMe, 4-Br-Bn, S, S), (N-689: COOMe, 4-F-Bn, S, S), (N-690: COOMe, 3,4-diCl-Bn, S, S), (N-691: COOMe, 3,4-diBr-Bn, S, S), (N-692: COOMe, 3,4-diF-Bn, S, S), (N-693: COOMe, 4-Cl-Bz, S, S), (N-694: COOMe, 3,4-diCl-Bz, S, S), (N-695: COOMe, 4-Br-Bz, S, S), (N-696: COOMe, 3,4-diBr-Bz, S, S), (N-697: COOMe, 4-F-Bz, S, S), (N-698: COOMe, 3,4-diF-Bz, S, S), (N-699: COOMe, 4-NO₂-Bn, S, S), (N-700: COOMe, 4-CN-Bn, S, S), (N-701: Ph, H, O, S), (N-702: 4-F-Ph, H, O, S), (N-703: 4-Br-Ph, H, O, S), (N-704: 4-Me-Ph, H, O, S), (N-705: 4-Ph-Ph, H, O, S), (N-706: 4-OMe-Ph, H, O, S), (N-707: 4-tBu-Ph, H, O, S), S), (N-708: 4-COOMe-Ph, H, 0, S), (N-709: 4-Pen-Ph, H, O, S), (N-710: 4-NO₂-Ph, H, O, S), (N-711: 5-Cl-thiophene-2-yl, H, O, S), (N-712: 3-Thienyl, H, O, S), (N-713: 2-Py, H, O, S), (N-714: 3-Py, H, O, S), (N-715: 4-Py, H, O, S), (N-716: 3,4-diF-Ph, H, O, S), (N-717: 5-Br-thiophene-2-yl, H, O, S), (N-718: 4-CONH₂-Ph, H, O, S), (N-719: 4-CON(Me) H-Ph, H, O, S), (N-720: 4-CON(Me)₂-Ph, H, O, S), (N-721: 4-iPrOC(=O)-Ph, H, O, S), (N-722: 4-nBuOC(=O)-Ph, H, O, S), (N-723: 6-Me-pyridine-3-yl, H, O, S), (N-724: Quinoline-3-yl, H, O, S), (N-725: 4-NH₂-Ph, H, O, S), (N-726: 4-N (Ac)H-Ph, H, O, S), (N-727: 4-OH-Ph, H, O, S), (N-728: 3,4-di(OH)₂-Ph, H, O, S), (N-729: 3,4-di(NH₂)-Ph, H, O, S), (N-730: 3:4-[N(Ac)H]₂-Ph, H, O, S), (N-731: 4-SH-Ph, H, O, S), (N-732: 4-SMe-Ph, H, O, S), (N-733: 3,4-diBr-Ph, H, O, S), (N-734: 4-N(Me)H-Ph, H, O, S), (N-735: 4-N(Me)₂-Ph, H, O, S), (N-736: 4-N(Me)₃+Ph, H, O, S), (N-737: 4-Et-Ph, H, O, S), (N-738: 4-iPr-Ph, H, O, S), (N-739: 4-nPr-Ph, H, O, S), (N-740: 4-nBu-Ph, H, O, S), (N-741: 4-iBu-Ph, H, O, S), (N-742: 3,4-diMe-Ph, H, O, S), (N-743: 1,3-Benzodioxole-5-yl, H, O, S), (N-744: N-Me-pyridinium-4-yl, H, O, S), (N-745: N-Me-pyridinium-3-yl, H, O, S), (N-746: 5-Me-Pyridine-2-yl, H, O, S), (N-747: 2-Pyrazinyl, H, O, S), (N-748: 3-Pyrrolyl, H, O, S), (N-749: 1-Me-pyrrole-3-yl, H, O, S), (N-750: Pyridine N-oxide-4-yl, H, O, S), (N-751: Pyridine Noxide-3-yl, H, O, S), (N-752: 6-OH-pyridine-3-yl, H, O, S), (N-753: 6-SH-pyridine-3-yl, H, O, S), (N-754: 1-Ac-pyrrole-3-yl, H, O, S), (N-755: 4-CF3-Ph, H, 0, S), (N-756: 4-CN-Ph, H, 0, S), (N-757: 4-CHO-Ph, H, O, S), (N-758: 3-Cl-Ph, H, O, S), (N-759: 3-Br-Ph, H, O, S), (N-760: 3-F-Ph, H, O, S), (N-761: 3-I-Ph, H, O, S), (N-762: 4-I-Ph, H, O, S), (N-763: 4-OCF₃-Ph, H, O, S), (N-764: 3,4-dil-Ph, H, O, S), (N-765: Indole-6-yl, H, O, S), (N-766: 1-Ac-indole-6-yl, H, O, S), (N-767: 1-Me-indole-6-yl, H, O, S), (N-768: 4-(1-Imidazolyl)-Ph, H, O, S), (N-769: 4-Morphorino-Ph, H, O, S), (N-770: 4-(1-Piperazinyl)-Ph, H, O, S), (N-771: 2:5-diMe-thiophene-3-yl, H, 0, S), (N-772: 2-Furyl, H, O, S), (N-773: 5-Mefuran-2-yl, H, O, S), (N-774: 5-Me-furan-2-yl, H, O, S), (N-775: 2-Thiazolyl, H, O, S), (N-776: 1:4-Benzodioxin-6-yl, H, O, S), (N-777: Benzo[b]furan-2-yl, H, O, S), (N-778: 4-NH₂CH₂-Ph, H, O, S), (N-779: 4-N(Me)HCH₂-Ph, H, O, S), (N-780: 4-N(Me)₂CH₂-Ph, H, O, S), (N-781: 6-Cl-pyridine-3-yl, H, O, S), (N-782: 5,6-diCl-pyridine-3-yl, H, O, S), (N-783: 5-CI-pyridine-2-yl, H, O, S), (N-784: 4:5-diCI-pyridine-2-yl, H, O, S), (N-785: 4-CICH₂-Bn, H, O, S), (N-786: Bn, H, O, S), (N-787: 4-Cl-Bn, H, O, S), (N-788: 4-Br-Bn, H, O, S), (N-789: 4-F-Bn, H, O, S), (N-790: 3,4-diCl-Bn, H, O, S), (N-791: 3,4-diBr-Bn, H, O, S), (N-792: 3,4-diF-Bn, H, O, S), (N-793: 4-Cl-Bz, H, O, S), (N-794: 3,4-diCl-Bz, H, O, S), (N-795: 4-Br-Bz, H, O, S), (N-796: 3,4-diBr-Bz, H, O, S), (N-797: 4-F-Bz, H, O, S), (N-798: 3,4-diF-Bz, H, O, S), (N-799: 4-NO₂-Bn, H, O, S), (N-800: 4-CN-Bn, H, O, S), (N-801: Ph, Me, O, S), (N-802: 4-F-Ph, Me, O, S), (N-803: 4-Br-Ph, Me, O, S), (N-804: 4-Me-Ph, Me, O, S), (N-805: 4-Ph-Ph, Me, O, S), (N-806: 4-OMe-Ph, Me, O, S), (N-807: 4-tBu-Ph, Me, O, S), (N-808: 4-COOMe-Ph, Me, O, S), (N-809: 4-Pen-Ph, Me, O, S), (N-810: 4-NO2-Ph, Me, O, S), (N-811: 5-CIthiophene-2-yl, Me, O, S), (N-812: 3-Thienyl, Me, O, S), (N-813: 2-Py, Me, O, S), (N-814: 3-Py, Me, O, S), (N-815: 4-Py, Me, O, S), (N-816: 3,4-diF-Ph, Me, O, S), (N-817: 5-Br-thiophene-2-yl, Me, O, S), (N-818: 4-CONH₂-Ph, Me, O, S), (N-819: 4-CON(Me)H-Ph, Me, O, S), (N-820: 4-CON(Me)₂-Ph, Me, O, S), (N-821: 4-iPrOC(=O)-Ph, Me, O, S), (N-822: 4-nBuOC(=O)-Ph, Me, O, S), (N-823: 6-Me-pyridine-3-yl, Me, O, S), (N-824: Quinoline-3-yl, Me, O, S), (N-825: 4-NH₂-Ph, Me, O, S), (N-826: 4-N(Ac)H-Ph, Me, O, S), (N-827: 4-OH-Ph, Me, O, S), (N-828: 3,4-di(OH)₂-Ph, Me, O, S), (N-829: 3,4-di(NH₂)-Ph, Me, O, S), (N-830: 3:4-[N(Ac)H]₂-Ph, Me, O, S), (N-831: 4-SH-Ph, Me, O, S), (N-832: 4-SMe-Ph, Me, O, S), (N-833: 3,4-diBr-Ph, Me, O, S), (N-834: 4-N(Me)H-Ph, Me, O, S), (N-835: 4-N(Me)₂-Ph, Me, O, S), (N-836: 4-N(Me)₃*-Ph, Me, O, S), (N-837: 4-Et-Ph, Me, O, S), (N-838: 4-iPr-Ph, Me, O, S), (N-839: 4-nPr-Ph, Me, O, S), (N-840: 4-nBu-Ph, Me, O, S), (N-841: 4-iBu-Ph, Me, O, S), (N-842: 3,4-diMe-Ph, Me, O, S), (N-843: 1,3-Benzodioxole-5-yl, Me, O, S), (N-844: N-Me-pyridinium-4-yl, Me, O, S), (N-845: N-Me-pyridinium-3-yl, Me, O, S), (N-846: 5-Me-Pyridine-2-yl, Me, O, S), (N-847: 2-Pyrazinyl, Me, O, S), (N-848: 3-Pyrrolyl, Me, O, S), (N-849: 1-Me-pyrrole-3-yl, Me, O, S), (N-850: Pyridine N-oxide-4-yl, Me, O, S), (N-851: Pyridine N-oxide-3-yl, Me, O, S), (N-852: 6-OH-pyridine-3-yl, Me, O, S), (N-853: 6-SH-pyridine-3-yl, Me, O, S), (N-854: 1-Ac-pyrrole-3-yl, Me, O, S), (N-855: 4-CF₃-Ph, Me, O, S), (N-856: 4-CN-Ph, Me, 0, S), (N-857: 4-CHO-Ph, Me, 0, S), (N-858: 3-CI-Ph, Me, O, S), (N-859: 3-Br-Ph, Me, O, S), (N-860: 3-F-Ph, Me, O, S), (N-861: 3-I-Ph, Me, O, S), (N-862: 4-I-Ph, Me, O, S), (N-863: 4-OCF₃-Ph, Me, O, S), (N-864: 3,4-dil-Ph, Me, O, S), (N-865: Indole-6-yl, Me, O, S), (N-866: 1-Ac-indole-6-yl, Me, O, S), (N-867: 1-Me-indole-6-yl, Me, O, S), (N-867: 1-Me-indole-6-yl, Me, O, S), (N-867: 1-Me-indole-6-yl, Me, O, S), (N-866: 1-Ac-indole-6-yl, Me, O, S), (N-867: 1-Me-indole-6-yl, Me, O, S), (N-868: 1-Me-indole-6-6-yl, Me, O, S), (N-868: 4-(1-Imidazolyl)-Ph, Me, O, S), (N-869: 4-Morphorino-Ph, Me, O, S), (N-870: 4-(1-Piperazinyl) -Ph, Me, O, S), (N-871: 2:5-diMe-thiophene-3-yl, Me, O, S), (N-872: 2-Furyl, Me, O, S), (N-873: 5-Me-furan-2-yl, Me,

O, S), (N-874: 5-Me-furan-2-yl, Me, O, S), (N-875: 2-Thiazolyl, Me, O, S), (N-876: 1:4-Benzodioxin-6-yl, Me, O, S), (N-877: Benzo[b]furan-2-yl, Me, O, S), (N-878: 4-NH₂CH₂-Ph, Me, O, S), (N-879: 4-N(Me)HCH₂-Ph, Me, O, S), (N-880: 4-N(Me)₂CH₂-Ph, Me, O, S), (N-881: 6-CI-pyridine-3-yl, Me, O, S), (N-882: 5,6-diCI-pyridine-3-yl, Me, O, S), (N-883: 5-CI-pyridine-2-yl, Me, O, S), (N-884: 4:5-diCI-pyridine-2-yl, Me, O, S), (N-885: 4-CICH₂-Bn, Me, O, S), (N-886: Bn, Me, O, S), (N-887: 4-Cl-Bn, Me, O, S), (N-888: 4-Br-Bn, Me, O, S), (N-889: 4-F-Bn, Me, O, S), (N-890: 3,4-diCl-Bn, Me, O, S), (N-891: 3,4-diBr-Bn, Me, O, S), (N-892: 3,4-diF-Bn, Me, O, S), (N-893: 4-Cl-Bz, Me, 0, S), (N-894: 3,4-diCl-Bz, Me, O, S), (N-895: 4-Br-Bz, Me, O, S), (N-896: 3,4-diBr-Bz, Me, O, S), (N-897: 4-F-Bz, Me, O, S), (N-898: 3,4-diF-Bz, Me, O, S), (N-899: 4-NO₂-Bn, Me, O, S), (N-900: 4-CN-Bn, Me, O, S), (N-901: Ph, Et, O, S), (N-902: 4-F-Ph, Et, O, S), (N-903: 4-Br-Ph, Et, O, S), (N-904: 4-Me-Ph, Et, O, S), (N-905: 4-Ph-Ph, Et, 0, S), (N-906: 4-OMe-Ph, Et, O, S), (N-907: 4-tBu-Ph, Et, O, S), (N-908: 4-COOMe-Ph, Et, O, S), (N-909: 4-Pen-Ph, Et, O, S), (N-910: 4-NO₂-Ph, Et, O, S), (N-911: 5-CI-thiophene-2-yl, Et, O, S), (N-912: 3-Thienyl, Et, O, S), (N-913: 2-Py, Et, O, S), (N-914: 3-Py, Et, O, S), (N-915: 4-Py, Et, 0, S), (N-916: 3,4-diF-Ph, Et, 0, S), (N-917: 5-Br-thiophene-2-yl, Et, O, S), (N-918: 4-CONH₂-Ph, Et, 0, S), (N-919: 4-CON(Me)H-Ph, Et, O, S), (N-920: 4-CON(Me)2-Ph, Et, O, S), (N-921: 4-iPrOC(=O)-Ph, Et, O, S), (N-920: 4-CON(Me)2-Ph, Et, O, S), (N-910: 4-iPrOC(=O)-Ph, O, S), (N-910: 4-iProC(=O)-Ph, O, S), (N-910: 4-iProC(=O)-922: 4-nBuOC(=O)-Ph, Et, O, S), (N-923: 6-Me-pyridine-3-yl, Et, O, S), (N-924: Quinoline-3-yl, Et, O, S), (N-925: 4-NH₂-Ph, Et, O, S), (N-926: 4-N(Ac)H-Ph, Et, O, S), (N-927: 4-OH-Ph, Et, O, S), (N-928: 3,4-di(OH)₂-Ph, Et, O, S), (N-929: 3,4-di(NH₂)-Ph, Et, O, S), (N-930: 3:4-[N(Ac)H]₂-Ph, Et, O, S), (N-931: 4-SH-Ph, Et, O, S), (N-932: 4-SMe-Ph, Et, O, S), (N-933: 3,4-diBr-Ph, Et, O, S), (N-934: 4-N(Me)H-Ph, Et, O, S), (N-935: 4-N(Me)₂-Ph, Et, O, S), (N-936: 4-N(Me)₃+-Ph, Et, O, S), (N-937: 4-Et-Ph, Et, O, S), (N-938: 4-iPr-Ph, Et, O, S), (N-939: 4-nPr-Ph, Et, O, S), (N-940: 4-nBu-Ph, Et, O, S), (N-941: 4-iBu-Ph, Et, O, S), (N-942: 3,4-diMe-Ph, Et, O, S), (N-943: 1,3-Benzodioxole-5-yl, Et, O, S), 944: N-Me-pyridinium-4-yl, Et, O, S), (N-945: N-Me-pyridinium-3-yl, Et, O, S), (N-946: 5-Me-Pyridine-2-yl, Et, O, S), (N-947: 2-Pyrazinyl, Et, O, S), (N-948: 3-Pyrrolyl, Et, O, S), (N-949: 1-Me-pyrrole-3-yl, Et, O, S), (N-950: Pyridine Noxide-4-yl, Et, O, S), (N-951: Pyridine N-oxide-3-yl, Et, O, S), (N-952: 6-OH-pyridine-3-yl, Et, O, S), (N-953: 6-SHpyridine-3-yl, Et, O, S), (N-954: 1-Ac-pyrrole-3-yl, Et, O, S), (N-955: 4-CF3-Ph, Et, O, S), (N-956: 4-CN-Ph, Et, O, S), (N-957: 4-CHO-Ph, Et, O, S), (N-958: 3-CI-Ph, Et, O, S), (N-959: 3-Br-Ph, Et, O, S), (N-960: 3-F-Ph, Et, O, S), (N-961: 3-I-Ph, Et, O, S), (N-962: 4-I-Ph, Et, O, S), (N-963: 4-OCF3-Ph, Et, O, S), (N-964: 3,4-dil-Ph, Et, O, S), (N-965: Indole-6-yl, Et, O, S), (N-966: 1-Ac-indole-6-yl, Et, O, S), (N-967: 1-Me-indole-6-yl, Et, 0, S), (N-968: 4-(1-Imidazolyl)-Ph, Et, O, S), (N-969: 4-Morphorino-Ph, Et, O, S), (N-970: 4-(1-Piperazinyl)-Ph, Et, O, S), (N-971: 2:5-diMe-thiophene-3-yl, Et, O, S), (N-972: 2-Furyl, Et, O, S), (N-973: 5-Me-furan-2-yl, Et, O, S), (N-974: 5-Me-furan-2-yl, Et, O, S), (N-975: 2-Thiazolyl, Et, O, S), (N-976: 1:4-Benzodioxin-6-yl, Et, O, S), (N-977: Benzo[b]furan-2-yl, Et, O, S), (N-978: 4-NH2CH2-Ph, Et, O, S), (N-979: 4-N(Me)HCH₂-Ph, Et, O, S), (N-980: 4-N(Me)₂CH₂-Ph, Et, 0, S), (N-981: 6-Cl-pyridine-3-yl, Et, O, S), (N-982: 5,6-diCl-pyridine-3-yl, Et, O, S), (N-983: 5-Cl-pyridine-2-yl, Et, O, S), (N-984: 4:5-diCl-pyridine-2-yl, Et, O, S), (N-985: 4-CICH₂-Bn, Et, O, S), (N-986: Bn, Et, O, S), (N-987: 4-CI-Bn, Et, O, S), (N-988: 4-Br-Bn, Et, O, S), (N-989: 4-F-Bn, Et, O, S), (N-990: 3,4-diCl-Bn, Et, O, S), (N-991: 3,4-diBr-Bn, Et, O, S), (N-992: 3,4-diF-Bn, Et, O, S), (N-993: 4-Cl-Bz, Et, O, S), (N-994: 3,4-diCl-Bz, Et, O, S), (N-995: 4-Br-Bz, Et, O, S), (N-996: 3,4-diBr-Bz, Et, O, S), (N-997: 4-F-Bz, Et, O, S), (N-998: 3,4-diF-Bz, Et, O, S), (N-999: 4-NO₂-Bn, Et, O, S), (N-1000: 4-CN-Bn, Et, O, S), (N-1001: Ph, COOMe, O, S), (N-1002: 4-F-Ph, COOMe, O, S), (N-1003: 4-Br-Ph, COOMe, O, S), (N-1004: 4-Me-Ph, COOMe, O, S), (N-1005: 4-Ph-Ph, COOMe, O, S), (N-1006: 4-OMe-Ph, COOMe; O, S), (N-1007: 4-tBu-Ph, COOMe, O, S), (N-1008: 4-COOMe-Ph, COOMe, O, S), (N-1009: 4-Pen-Ph, COOMe, O, S), (N-1010: 4-NO₂-Ph, COOMe, O, S), (N-1011: 5-Cl-thiophene-2-yl, COOMe, O, S), (N-1012: 3-Thienyl, COOMe, O, S), (N-1013: 2-Py, COOMe, O, S), (N-1014: 3-Py, COOMe, O, S), (N-1015: 4-Py, COOMe, O, S), (N-1016: 3,4-diF-Ph, COOMe, O, S), (N-1017: 5-Brthiophene-2-yl, COOMe, O, S), (N-1018: 4-CONH₂-Ph, COOMe, O, S), (N-1019: 4-CON(Me)H-Ph, COOMe, O, S), (N-1020: 4-CON(Me)₂-Ph, COOMe, O, S), (N-1021: 4-iPrOC(=0)-Ph, COOMe, O, S), (N-1022: 4-nBuOC(=0)-Ph, COOMe, O, S), (N-1023: 6-Me-pyridine-3-yl, COOMe, 0, S), (N-1024: Quinoline-3-yl, COOMe, O, S), (N-1025: 4-NH₂-Ph, COOMe, O, S), (N-1026: 4-N(Ac)H-Ph, COOMe, O, S), (N-1027: 4-OH-Ph, COOMe, O, S), (N-1028: 3,4-di(OH)₂-Ph, COOMe, O, S), (N-1029: 3,4-di(NH₂)-Ph, COOMe, O, S), (N-1030: 3:4-[N(Ac)H]₂-Ph, COOMe, O, S), (N-1031: 4-SH-Ph, COOMe, O, S), (N.1032: 4-SMe-Ph, COOMe, O, S), (N-1033: 3,4-diBr-Ph, COOMe, O, S), (N-1034: 4-N (Me)H-Ph, COOMe, O, S), (N-1035: 4-N(Me)₂-Ph, COOMe, O, S), (N-1036: 4-N(Me)₃+-Ph, COOMe, O, S), (N-1037: 4-Et-Ph, COOMe, O, S), (N-1038: 4-iPr-Ph, COOMe, O, S), (N-1039: 4-nPr-Ph, COOMe, O, S), (N-1040: 4-nBu-Ph, COOMe, O, S), (N-1041: 4-iBu-Ph, COOMe, O, S), (N-1042: 3,4-diMe-Ph, COOMe, O, S), (N-1043: 1,3-Benzodioxole-5-yl, COOMe, O, S), (N-1044: N-Me-pyridinium-4-yl, COOMe, O, S), (N-1045: N-Me-pyridinium-3-yl, COOMe, O, S), (N-1046: 5-Me-Pyridine-2-yl, COOMe, 0, S), (N-1047: 2-Pyrazinyl, COOMe, O, S), (N-1048: 3-Pyrrolyl, COOMe, O, S), (N-1049: 1-Me-pyrrole-3-yl, COOMe, O, S), (N-1050: Pyridine N-oxide-4-yl, COOMe, O, S), (N-1051: Pyridine Noxide-3-yl, COOMe, O, S), (N-1052: 6-OH-pyridine-3-yl, COOMe, O, S), (N-1053: 6-SH-pyridine-3-yl, COOMe, O, S), (N-1054: 1-Ac-pyrrole-3-yl, COOMe, O, S), (N-1055: 4-CF₃-Ph, COOMe, O, S), (N-1056: 4-CN-Ph, COOMe, O, S), (N-1057: 4-CHO-Ph, COOMe, O, S), (N-1058: 3-CI-Ph, COOMe, O, S), (N-1059: 3-Br-Ph, COOMe, O, S), (N-1060: 3-F-Ph, COOMe, O, S), (N-1061: 3-I-Ph, COOMe, O, S), (N-1062: 4-I-Ph, COOMe, O, S), (N-1063: 4-OCF₃-Ph, COOMe, O, S), (N-1064: 3,4-dil-Ph, COOMe, O, S), (N-1065: Indole-6-yl, COOMe, O, S), (N-1066: 1-Ac-indole-6-yl, COOMe, O, S), (N-1067: 1-Me-indole-6-yl, COOMe, O, S), (N-1068: 4-(1-Imidazolyl)-Ph, COOMe, O, S), (N-1069:

4-Morphorino-Ph, COOMe, O, S), (N-1070: 4-(1-Piperazinyl)-Ph, COOMe, O, S), (N-1071: 2:5-diMe-thiophene-3-yl, COOMe, O, S), (N-1072: 2-Furyl, COOMe, O, S), (N-1073: 5-Me-furan-2-yl, COOMe, O, S), (N-1074: 5-Me-furan-2-yl, COOMe, O, S), (N-1075: 2-Thiazolyl, COOMe, O, S), (N-1076: 1:4-Benzodioxin-6-yl, COOMe, D, S), (N-1077: Benzo [b]furan-2-yl, COOMe, O, S), (N-1078: 4-NH₂CH₂-Ph, COOMe, D, S), (N-1079: 4-N(Me)HCH₂-Ph, COOMe, O, S), (N-1080: 4-N(Me)₂CH₂-Ph, COOMe, O, S), (N-1081: 6-Cl-pyridine-3-yl, COOMe, O, S), (N-1082: 5,6-diCl-pyridine-3-yl, COOMe, O, S), (N-1083: 5-Cl-pyridine-2-yl, COOMe, O, S), (N-1084: 4:5-diCl-pyridine-2-yl, COOMe, 0, S), (N-1085: 4-CICH₂-Bn, COOMe, O, S), (N-1086: Bn, COOMe, O, S), (N-1087: 4-CI-Bn, COOMe, O, S), (N-1088: 4-Br-Bn, COOMe, O, S), (N-1089: 4-F-Bn, COOMe, O, S), (N-1090: 3,4-diCl-Bn, COOMe, O, S), (N-1091: 3,4-diBr-Bn, COOMe, O, S), (N-1092: 3,4-diF-Bn, COOMe, O, S), (N-1093: 4-Cl-Bz, COOMe, O, S), (N-1094: 3,4-diCl-Bz, COOMe, O, S), (N-1095: 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S), (N-1126: H, 4-N(Ac)H-Ph, O, S), (N-1127: H, 4-OH-Ph, O, S), (N-1128: H, 3,4-di(OH)₂-Ph, O, S), (N-1129: H, 3,4-di(NH₂)-Ph, O, S), (N-1130: H, 3:4-[N(Ac)H]₂-Ph, O, S), (N-1131: H, 4-SH-Ph, O, S), (N-1132: H, 4-SMe-Ph, O, S), (N-1133: H, 3,4-diBr-Ph, O, S), (N-1134: H, 4-N(Me)H-Ph, O, S), (N-1135: H, 4-N(Me)₂-Ph, O, S), (N-1136: H, 4-N(Me)₃+Ph, O, S), (N-1137: H, 4-Et-Ph, O, S), (N-1138: H, 4-iPr-Ph, O, S), (N-1139: H, 4-nPr-Ph, O, S), (N-1140: H, 4-nBu-Ph, O, S), (N-1141: H, 4-iBu-Ph, O, S), (N-1142: H, 3,4-diMe-Ph, O, S), (N-143: H, 1,3-Benzodioxole-5-yl, O, S), (N-1144: H, N-Me-pyridinium-4-yl, O, S), (N-1145: H, N-Me-pyridinium-3-yl, O, S), (N-1146: H, 5-Me-Pyridine-2-yl, O, S), (N-1147: H, 2-Pyrazinyl, O, S), (N-1148: H, 3-Pyrrolyl, O, S), (N-1149: H, 1-Me-pyrrole-3-yl, O, S), (N-1150: H, Pyridine N-oxide-4-yl, O, S), (N-1151: H, Pyridine N-oxide-3-yl, O, S), (N-1152: H, 6-OH-pyridine-3-yl, O, S), (N-1153: H, 6-SH-pyridine-3-yl, O, S), (N-1154: H, 1-Ac-pyrrole-3-yl, O, S), (N-1155: H, 4-CF₃-Ph, O, S), (N-1156: H, 4-CN-Ph, O, S), (N-1157: H, 4-CHO-Ph, O, S), (N-1158: H, 3-CI-Ph, O, S), (N-1159: H, 3-Br-Ph, O, S), (N-1160: H, 3-F-Ph, O, S), (N-1161: H, 3-I-Ph, O, S), (N-1162: H, 4-I-Ph, O, S), (N-1163: H, 4-OCF₃-Ph, O, S), (N-1164: H, 3,4-dil-Ph, O, S), (N-1165: H, Indole-6-yl, O, S), (N-1166: H, 1-Ac-indole-6-yl, O, S), (N-1167: H, 1-Me-indole-6-yl, O, S), (N-1168: H, 4-(1-Imidazolyl)-Ph, O, S), (N-1169: H, 4-Morphorino-Ph, O, S), (N-1170: H, 4-(1-Piperazinyl)-Ph, O, S), (N-1171: H, 2:5-diMe-thiophene-3-yl, O, S), (N-1172: H, 2-Furyl, O, S), (N-1173: H, 5-Me-furan-2-yl, O, S), (N-1174: H, 5-Me-furan-2-yl, O, S), (N-1175: H, 2-Thiazolyl, O, S), (N-1176: H, 1:4-Benzodioxin-6-yl, O, S), (N-1177: H, Benzo[b]furan-2-yl, O, S), (N-1178: H, 4-NH₂CH₂-Ph, O, S), (N-1179: H, 4-N(Me)HCH₂-Ph, O, S), (N-1180: H, 4-N(Me)₂CH₂-Ph, O, S), (N-1181: H, 6-Cl-pyridine-3-yl, O, S), (N-1182: H, 5,6-diCl-pyridine-3-yl, O, S), (N-1183: H, 5-Cl-pyridine-2-yl, O, S), (N-1184: H, 4:5-diCl-pyridine-2-yl, O, S), (N-1185: H, 4-CICH₂-Bn, O, S), (N-1186: H, Bn, O, S), (N-1187: H, 4-CI-Bn, O, S), (N-1188: H, 4-Br-Bn, O, S), (N-1189: H, 4-F-Bn, O, S), (N-1190: H, 3,4-diCl-Bn, O, S), (N-1191: H, 3,4-diBr-Bn, O, S), (N-1192: H, 3,4-diF-Bn, O, S), (N-1193: H, 4-Cl-Bz, O, S), (N-1194: H, 3,4-diBr-Bn, O, S), (N-1195: H, 3,4-diBr-Bn, O, S), (N-1196: H, 1194: H, 3,4-diCl-Bz, O, S), (N-1195: H, 4-Br-Bz, O, S), (N-1196: H, 3,4-diBr-Bz, O, S), (N-1197: H, 4-F-Bz, O, S), (N-1198: H, 3,4-diF-Bz, O, S), (N-1199: H, 4-NO₂-Bn, O, S), (N-1200: H, 4-CN-Bn, O, S), (N-1201: Me, Ph, O, S), (N-1202: Me, 4-F-Ph, O, S), (N-1203: Me, 4-Br-Ph, O, S), (N-1204: Me, 4-Me-Ph, O, S), (N-1205: Me, 4-Ph-Ph, O, S), (N-1206: Me, 4-OMe-Ph, O, S), (N-1207: Me, 4-tBu-Ph, O, S), (N-1208: Me, 4-COOMe-Ph, O, S), (N-1209: Me, 4-Pen-Ph, O, S), (N-1210: Me, 4-NO₂-Ph, O, S), (N-1211: Me, 5-Cl-thiophene-2-yl, O, S), (N-1212: Me, 3-Thienyl, O, S), (N-1213: Me, 2-Py, O, S), (N-1214: Me, 3-Py, O, S), (N-1215: Me, 4-Py, O, S), (N-1216: Me, 3,4-diF-Ph, O, S), (N-1217: Me, 5-Br-thiophene-2-yl, O, S), (N-1218: Me, 4-CONH₂-Ph, O, S), (N-1219: Me, 4-CON(Me)H-Ph, O, S), (N-1220: Me, 4-CON(Me)₂-Ph, O, S), (N-1221: Me, 4-iPrOC(=O)-Ph, O, S), (N-1222: Me, 4-nBuOC(=O)-Ph, O, S), (N-1223: Me, 6-Me-pyridine-3-yl, O, S), (N-1224: Me, Quinoline-3-yl, O, S), (N-1225: Me, 4-NH₂-Ph, O, S), (N-1226: Me, 4-N(Ac) H-Ph, O, S), (N-1227: Me, 4-OH-Ph, O, S), (N-1228: Me, 3,4-di(OH)₂-Ph, O, S), (N-1229: Me, 3,4-di(NH₂)-Ph, O, S), (N-1230: Me, 3:4-[N(Ac)H]₂-Ph, O, S), (N-1231: Me, 4-SH-Ph, O, S), (N-1232: Me, 4-SMe-Ph, O, S), (N-1233: Me, 3,4-diBr-Ph, O, S), (N-1234: Me, 4-N(Me)H-Ph, 0, S), (N-1235: Me, 4-N(Me)₂-Ph, D, S), (N-1236: Me, 4-N(Me)₃*-Ph, O, S), (N-1237: Me, 4-Et-Ph, O, S), (N-1238: Me, 4-iPr-Ph, O, S), (N-1239: Me, 4-nPr-Ph, O, S), (N-1240: Me, 4-nBu-Ph, 0, S), (N-1241: Me, 4-iBu-Ph, O, S), (N-1242: Me, 3,4-diMe-Ph, O, S), (N-1243: Me, 1,3-Benzodioxole-5-yl, 0, S), (N-1244: Me, N-Me-pyridinium-4-yl, O, S), (N-1245: Me, N-Me-pyridinium-3-yl, O, S), (N-1246: Me, 5-Me-Pyridine-2-yl, O, S), (N-1247: Me, 2-Pyrazinyl, O, S), (N-1248: Me, 3-Pyrrolyl, O, S), (N-1249: Me, 1-Me-pyrrole-3-yl, O, S), (N-1250: Me, Pyridine N-oxide-4-yl, O, S), (N-1251: Me, Pyridine N-oxide-3-yl, O, S), (N-1252: Me, 6-OH-pyridine-3-yl, O, S), (N-1253: Me, 6-SH-pyridine-3-yl, O, S), (N-1254: Me, 1-Ac-pyrrole-3-yl, O, S), (N-1255: Me, 4-CF₃-Ph, O, S), (N-1256: Me, 4-CN-Ph, O, S), (N-1257: Me, 4-CHO-Ph, O, S), (N-1258: Me, 3-CI-Ph, O, S), (N-1259: Me, 3-Br-Ph, O, S), (N-1260: Me, 3-F-Ph, O, S), (N-1261: Me, 3-I-Ph, O, S), (N-1262: Me, 4-I-Ph, O, S), (N-1263: Me, 4-OCF₃-Ph, O, S), (N-1264: Me, 3,4-dil-Ph, 0, S), (N-1265: Me, Indole-6-yl, O, S), (N-1266: Me, 1-Ac-indole-6-yl, 0, S), (N-1267: Me, 1-Me-

indole-6-yi, 0, S), (N-1268: Me, 4-(1-Imidazolyl)-Ph, 0, S), (N-1269: Me, 4-Morphorino-Ph, O, S), (N-1270: Me, 4-(1-Piperazinyl)-Ph, 0, S), (N-1271: Me, 2:5-diMe-thiophene-3-yl, 0, S), (N-1272: Me, 2-Furyl, 0, S), (N-1273: Me, 5-Me-furan-2-yl, 0, S), (N-1274: Me, 5-Me-furan-2-yl, 0, S), (N-1275: Me, 2-Thiazolyl, 0, S), (N-1276: Me, 1:4-Benzodioxin-6-yl, O, S), (N-1277: Me, Benzo[b]furan-2-yl, 0, S), (N-1278: Me, 4-NH₂CH₂-Ph, 0, S), (N-1279: Me, 4-N(Me)HCH₂-Ph, O, S), $(N-1280: Me, 4-N(Me)_2CH_2-Ph, 0, S)$, (N-1281: Me, 6-Cl-pyridine-3-yl, 0, S), (N-1282: Me, 5,6-diCl-pyridine-3-yl, 0, S)0, S), (N-1283: Me, 5-Cl-pyridine-2-yl, 0, S), (N-1284: Me, 4:5-diCl-pyridine-2-yl, 0, S), (N-1285: Me, 4-ClCH₂-Bn, O, S), (N-1286: Me, Bn, O, S), (N-1287: Me, 4-Cl-Bn, O, S), (N-1288: Me, 4-Br-Bn, O, S), (N-1289: Me, 4-F-Bn, O, S), (N-1290: Me, 3,4-diCl-Bn, O, S), (N-1291: Me, 3,4-diBr-Bn, O, S), (N-1292: Me, 3,4-diF-Bn, O, S); (N-1293: Me, 4-Cl-Bz, O, S), (N-1294: Me, 3,4-diCl-Bz, O, S), (N-1295: Me, 4-Br-Bz, O, S), (N-1296: Me, 3,4-diBr-Bz, O, S), (N-1297: 10 Me, 4-F-Bz, O, S), (N-1298: Me, 3,4-diF-Bz, O, S), (N-1299: Me, 4-NO₂-Bn, O, S), (N-1300: Me, 4-CN-Bn, O, S), (N-1301: Et, Ph, O, S), (N-1302: Et, 4-F-Ph, O, S), (N-1303: Et, 4-Br-Ph, O, S), (N-1304: Et, 4-Me-Ph, O, S), (N-1305: Et, 4-Ph-Ph, O, S), (N-1306: Et, 4-OMe-Ph, O, S), (N-1307: Et, 4-tBu-Ph, O, S), (N-1308: Et, 4-COOMe-Ph, O, S), (N-1308: Et, 4-COO 1309: Et, 4-Pen-Ph, O, S), (N-1310: Et, 4-NO₂-Ph, O, S), (N-1311: Et, 5-Cl-thiophene-2-yl, O, S), (N-1312: Et, 3-Thienyl, O, S), (N-1313: Et, 2-Py, O, S), (N-1314: Et, 3-Py, O, S), (N-1315: Et, 4-Py, 0, S), (N-1316: Et, 3,4-diF-Ph, O, S), (N-1317: Et, 5-Br-thiophene-2-yl, O, S), (N-1318: Et, 4-CONH₂-Ph, O, S), (N-1319: Et, 4-CON(Me)H-Ph, O, S), (N-1320: Et, 4-CON(Me)₂-Ph, O, S), (N-1321: Et, 4-iPrOC(=O)-Ph, O, S), (N-1322: Et, 4-nBuOC(=O)-Ph, O, S), (N-1323: Et, 6-Me-pyridine-3-yl, O, S), (N-1324: Et, Quinoline-3-yl, O, S), (N-1325: Et, 4-NH2-Ph, O, S), (N-1326: Et, 4-N(Ac)H-Ph, O, S), (N-1327: Et, 4-OH-Ph, O, S), (N-1328: Et, 3,4-di(OH)₂-Ph, O, S), (N-1329: Et, 3,4-di(NH₂)-Ph, O, S), (N-1330: Et, 3:4-[N(Ac)H]₂-Ph, O, S), (N-1331: Et, 4-SH-Ph, O, S), (N-1332: Et, 4-SMe-Ph, O, S), (N-1333: Et, 3,4-diBr-Ph, O, S), (N-1334: Et, 4-N(Me)H-Ph, O, S), (N-1335: Et, 4-N(Me)2-Ph, O, S), (N-1336: Et, 4-N(Me)3+Ph, O, S), (N-1337: Et, 4-Et-Ph, O, S), (N-1338: Et, 4-iPr-Ph, 0, S), (N-1339: Et, 4-nPr-Ph, 0, S), (N-1340: Et, 4-nBu-Ph, 0, S), (N-1341: Et, 4-iBu-Ph, 0, S), (N-1342: Et, 3,4-diMe-Ph, O, S), (N-1343: Et, 1,3-Benzodioxole-5-yl, O, S), (N-1344: Et, N-Me-pyridinium-4-yl, O, S), (N-1345: Et, N-Me-pyridinium-3-yl, O, S), (N-1346: Et, 5-Me-Pyridine-2-yl, O, S), (N-1347: Et, 2-Pyrazinyl, O, S), (N-1348: Et, 3-Pyrrolyl, O, S), (N-1349: Et, 1-Me-pyrrole-3-yl, O, S), (N-1350: Et, Pyridine N-oxide-4-yl, O, S), (N-1351: Et, Pyridine N-oxide-3-yl, O, S), (N-1352: Et, 6-OH-pyridine-3-yl, O, S), (N-1353: Et, 6-SH-pyridine-3-yl, O, S), (N-1354: Et, 1-Ac-pyrrole-3-yl, O, S), (N-1355: Et, 4-CF₃-Ph, O, S), (N-1356: Et, 4-CN-Ph, 0, S), (N-1357: Et, 4-CHO-Ph, O, S), (N-1358: Et, 3-Cl-Ph, O, S), (N-1359: Et, 3-Br-Ph, 0, S), (N-1360: Et, 3-F-Ph, O, S), (N-1361: Et, 3-I-Ph, 0, S), (N-1362: Et, 4-I-Ph, 0, S), (N-1363: Et, 4-OCF₃-Ph, O, S), (N-1364: Et, 3,4-dil-Ph, O, S), (N-1365: Et, Indole-6-yl, O, S), (N-1366: Et, 1-Ac-indole-6-yl, O, S), (N-1367: Et, 1-Me-indole-6-yl, O, S), (N-1368: Et, 4-(1-Imida-30 zolyl)-Ph, O, S), (N-1369: Et, 4-Morphorino-Ph, O, S), (N-1370: Et, 4-(1-Piperazinyl)-Ph, O, S), (N-1371: Et, 2:5-diMethiophene-3-yl, O, S), (N-1372: Et, 2-Furyl, O, S), (N-1373: Et, 5-Me-furan-2-yl, O, S), (N-1374: Et, 5-Me-furan-2-yl, O, S), (N-1375: Et, 2-Thiazolyl, O, S), (N-1376: Et, 1:4-Benzodioxin-6-yl, O, S), (N-1377: Et, Benzo[b]furan-2-yl, O, S), (N-1378: Et, 4-NH₂CH₂-Ph, O, S), (N-1379: Et, 4-N(Me)HCH₂-Ph, O, S), (N-1380: Et, 4-N(Me)₂CH₂-Ph, O, S), (N-1381: Et, 6-Cl-pyridine-3-yl, O, S), (N-1382: Et, 5,6-diCl-pyridine-3-yl, O, S), (N-1383: Et, 5-Cl-pyridine-2-yl, O, S), (N-35 1384: Et, 4:5-diCl-pyridine-2-yl, O, S), (N-1385: Et, 4-ClCH₂-Bn, O, S), (N-1386: Et, Bn, O, S), (N-1387: Et, 4-Cl-Bn, O, S), (N-1388: Et, 4-Br-Bn, O, S), (N-1389: Et, 4-F-Bn, O, S), (N-1390: Et, 3,4-diCl-Bn, O, S), (N-1391: Et, 3,4-diBr-Bn, O, S), (N-1392: Et, 3,4-diF-Bn, O, S), (N-1393: Et, 4-Cl-Bz, O, S), (N-1394: Et, 3,4-diCl-Bz, O, S), (N-1395: Et, 4-Br-Bz, O, S), (N-1396: Et, 3,4-diBr-Bz, O, S), (N-1397: Et, 4-F-Bz, O, S), (N-1398: Et, 3,4-diF-Bz, O, S), (N-1399: Et, 4-NO₂-Bn, O, S), (N-1400: Et, 4-CN-Bn, O, S), (N-1401: COOMe, Ph, O, S), (N-1402: COOMe, 4-F-Ph, O, S), (N-1403: COOMe, 4-Br-Ph, O, S), (N-1404: COOMe, 4-Me-Ph, O, S), (N-1405: COOMe, 4-Ph-Ph, O, S), (N-1406: COOMe, 4-OMe-Ph, O, S), (N-1407: COOMe, 4-tBu-Ph, O, S), (N-1408: COOMe, 4-COOMe-Ph, O, S), (N-1409: COOMe, 4-Pen-Ph, O, S), (N-1410: COOMe, 4-NO₂-Ph, O, S), (N-1411: COOMe, 5-CI-thiophene-2-yl, O, S), (N-1412: COOMe, 3-Thienyl, O, S), (N-1413: COOMe, 2-Py, O, S), (N-1414: COOMe, 3-Py, O, S), (N-1415: COOMe, 4-Py, O, S), (N-1416: COOMe, 3,4-diF-Ph, O, S), (N-1417: COOMe, 5-Br-thiophene-2-yl, O, S), (N-1418: COOMe, 4-CONH₂-Ph, O, S), (N-1419: COOMe, 4-CON(Me)H-Ph, O, S), (N-1420: COOMe, 4-CON(Me)₂-Ph, O, S), (N-1421: COOMe, 4-iPrOC (=O)-Ph, O, S), (N-1422: COOMe, 4-nBuOC(=O)-Ph, O, S), (N-1423: COOMe, 6-Me-pyridine-3-yl, O, S), (N-1424: COOMe, Quinoline-3-yl, O, S), (N-1425: COOMe, 4-NH₂-Ph, O, S), (N-1426: COOMe, 4-N(Ac)H-Ph, O, S), (N-1427: COOMe, 4-OH-Ph, O, S), (N-1428: COOMe, 3,4-di(OH)₂-Ph, O, S), (N-1429: COOMe, 3,4-di(NH₂)-Ph, O, S), (N-1430: COOMe, 3:4-[N(Ac)H]₂-Ph, O, S), (N-1431: COOMe, 4-SH-Ph, O, S), (N-1432: COOMe, 4-SMe-Ph, O, S), (N-1433: COOMe, 3,4-diBr-Ph, O, S), (N-1434: COOMe, 4-N(Me)H-Ph, O, S), (N-1435: COOMe, 4-N(Me)₂-Ph, O, S), (N-1436: COOMe, 4-N(Me)₃+-Ph, O, S), (N-1437: COOMe, 4-Et-Ph, O, S), (N-1438: COOMe, 4-iPr-Ph, O, S), (N-1439: COOMe, 4-nPr-Ph, O, S), (N-1440: COOMe, 4-nBu-Ph, O, S), (N-1441: COOMe, 4-iBu-Ph, O, S), (N-1442: COOMe, 3,4-diMe-Ph, O, S), (N-1443: COOMe, 1,3-Benzodioxole-5-yl, O, S), (N-1444: COOMe, N-Me-pyridinium-4-yl, 0, S), (N-1445: COOMe, N-Me-pyridinium-3-yl, O, S), (N-1446: COOMe, 5-Me-Pyridine-2-yl, O, S), (N-1447: COOMe, 2-Pyrazinyl, O, S), (N-1448: COOMe, 3-Pyrrolyl, O, S), (N-1449: COOMe, 1-Me-pyrrole-3-yl, O, S), (N-1450: COOMe, Pyridine Noxide-4-yl, O, S), (N-1451: COOMe, Pyridine N-oxide-3-yl, O, S), (N-1452: COOMe, 6-OH-pyridine-3-yl, O, S), (N-1453: COOMe, 6-SH-pyridine-3-yl, O, S), (N-1454: COOMe, 1-Ac-pyrrole-3-yl, O, S), (N-1455: COOMe, 4-CF₃-Ph, O, S), (N-1456: COOMe, 4-CN-Ph, 0, S), (N-1457: COOMe, 4-CHO-Ph, O, S), (N-1458: COOMe, 3-CI-Ph, O, S), (N-

1459: COOMe, 3-Br-Ph, O, S), (N-1460: COOMe, 3-F-Ph, O, S), (N-1461: COOMe, 3-I-Ph, O, S), (N-1462: COOMe, 4-I-Ph, O, S), (N-1463: COOMe, 4-OCF₃-Ph, 0, S), (N-1464: COOMe, 3,4-dil-Ph, O, S), (N-1465: COOMe, Indole-6-yl, O, S), (N-1466: COOMe, 1-Ac-indole-6-yl, O, S), (N-1467: COOMe, 1-Me-indole-6-yl, O, S), (N-1468: COOMe, 4-(1-Imidazolyl)-Ph, O, S), (N-1469: COOMe, 4-Morphorino-Ph, O, S), (N-1470: COOMe, 4-(1-Piperazinyl)-Ph, O, S), (N-1471: COOMe, 2:5-diMe-thiophene-3-yl, O, S), (N-1472: COOMe, 2-Furyl, O, S), (N-1473: COOMe, 5-Me-furan-2-yl, O, S), (N-1474: COOMe, 5-Me-furan-2-yl, O, S), (N-1475: COOMe, 2-Thiazolyl, O, S), (N-1476: COOMe, 1:4-Benzodioxin-6-yl, O, S), (N-1477: COOMe, Benzo[b]furan-2-yl, O, S), (N-1478: COOMe, 4-NH₂CH₂-Ph, O, S), (N-1479: COOMe, 4-N(Me)HCH₂-Ph, O, S), (N-1480: COOMe, 4-N(Me)₂CH₂-Ph, O, S), (N-1481: COOMe, 6-Cl-pyridine-3-yl, O, S), (N-1482: COOMe, 5,6-diCl-pyridine-3-yl, O, S), (N-1483: COOMe, 5-Cl-pyridine-2-yl, O, S), (N-1484: COOMe, 4:5-diClpyridine-2-yl, O, S), (N-1485: COOMe, 4-CICH₂-Bn, O, S), (N-1486: COOMe, Bn, O, S), (N-1487: COOMe, 4-CI-Bn, O, S), (N-1488: COOMe, 4-Br-Bn, O, S), (N-1489: COOMe, 4-F-Bn, O, S), (N-1490: COOMe, 3,4-diCl-Bn, O, S), (N-1491: COOMe, 3,4-diBr-Bn, O, S), (N-1492: COOMe, 3,4-diF-Bn, O, S), (N-1493: COOMe, 4-Cl-Bz, 0, S), (N-1494: COOMe; 3,4-diCl-Bz, O, S), (N-1495: COOMe, 4-Br-Bz, O, S), (N-1496: COOMe, 3,4-diBr-Bz, O, S), (N-1497: COOMe, 4-F-Bz, O, S), (N-1498: COOMe, 3,4-diF-Bz, O, S), (N-1499: COOMe, 4-NO₂-Bn, O, S), (N-1500: COOMe, 4-CN-Bn, O, S), (N-1501: Ph, Me, S, O), (N-1502: 4-F-Ph, Me, S, O), (N-1503: 4-Br-Ph, Me, S, O), (N-1504: 4-Me-Ph, Me, S, O), (N-1505: 4-Ph-Ph, Me, S, O), (N-1506: 4-OMe-Ph, Me, S, O), (N-1507: 4-tBu-Ph, Me, S, O), (N-1508: 4-COOMe-Ph, Me, S, O), (N-1509: 4-Pen-Ph, Me, S, O), (N-1510: 4-NO₂-Ph, Me, S, O), (N-1511: 5-Cl-thiophene-2-yl, Me, S, O), (N-1512: 3-Thienyl, Me, S, O), (N-1513: 2-Py, Me, S, O), (N-1514: 3-Py, Me, S, O), (N-1515: 4-Py, Me, S, O), (N-1516: 3,4-diF-Ph, Me, S, 0), (N-1517: 5-Br-thiophene-2-yl, Me, S, O), (N-1518: 4-CONH₂-Ph, Me, S, O), (N-1519: 4-CON (Me)H-Ph, Me, S, O), (N-1520: 4-CON(Me)₂-Ph, Me, S, O), (N-1521: 4-iPrOC(=O)-Ph, Me, S, O), (N-1522: 4-nBuOC (=O)-Ph, Me, S, O), (N-1523: 6-Me-pyridine-3-yl, Me, S, O), (N-1524: Quinoline-3-yl, Me, S, O), (N-1525: 4-NH₂-Ph, Me, S, O), (N-1526: 4-N(Ac)H-Ph, Me, S, O), (N-1527: 4-OH-Ph, Me, S, O), (N-1528: 3,4-di(OH)₂-Ph, Me, S, O 1529: 3,4-di(NH₂)-Ph, Me, S, O), (N-1530: 3:4-[N(Ac)H]₂-Ph, Me, S, O), (N-1531: 4-SH-Ph, Me, S, O), (N-1532: 4-SMe-Ph, Me, S, O), (N-1533: 3,4-diBr-Ph, Me, S, O), (N-1534: 4-N(Me)H-Ph, Me, S, O), (N-1535: 4-N(Me)₂-Ph, Me, S, O), (N-1536: 4-N(Me)₃+-Ph, Me, S, O), (N-1537: 4-Et-Ph, Me, S, O), (N-1538: 4-iPr-Ph, Me, S, O), (N-1539: 4-nPr-Ph, Me, S, O), (N-1540: 4-nBu-Ph, Me, S, O), (N-1541: 4-iBu-Ph, Me, S, O), (N-1542: 3,4-diMe-Ph, Me, S, O), (N-1543: 1,3-Benzodioxole-5-yl, Me, S, O), (N-1544: N-Me-pyridinium-4-yl, Me, S, O), (N-1545: N-Me-pyridinium-3-yl, Me, S, O), (N-1546: 5-Me-Pyridine-2-yl, Me, S, O), (N-1547: 2-Pyrazinyl, Me, S, O), (N-1548: 3-Pyrrolyl, Me, S, O), (N-1549: 1-Mepyrrole-3-yl, Me, S, O), (N-1550: Pyridine N-oxide-4-yl, Me, S, O), (N-1551: Pyridine N-oxide-3-yl, Me, S, O), (N-1552: 30 6-OH-pyridine-3-yl, Me, S, O), (N-1553: 6-SH-pyridine-3-yl, Me, S, O), (N-1554: 1-Ac-pyrrole-3-yl, Me, S, O), (N-1555: 4-CF₃-Ph, Me, S, O), (N-1556: 4-CN-Ph, Me, S, O), (N-1557: 4-CHO-Ph, Me, S, O), (N-1558: 3-CI-Ph, Me, S, O), (N-1559: 3-Br-Ph, Me, S, O), (N-1560: 3-F-Ph, Me, S, O), (N-1561: 3-I-Ph, Me, S, O), (N-1562: 4-I-Ph, Me, S, O), (N-1560: 3-F-Ph, Me, S, O), (N-1 1563: 4-OCF₃-Ph, Me, S, O), (N-1564: 3,4-dil-Ph, Me, S, O), (N-1565: Indole-6-yl, Me, S, O), (N-1566: 1-Ac-indole-6-yl, Me, S, O), (N-1567: 1-Me-indole-6-yl, Me, S, O), (N-1568: 4-(1-Imidazolyl)-Ph, Me, S, O), (N-1569: 4-Morphorino-Ph, Me, S, O), (N-1570: 4-(1-Piperazinyl)-Ph, Me, S, O), (N-1571: 2:5-diMe-thiophene-3-yl, Me, S, O), (N-1572: 2-Furyl, Me, S, O), (N-1573: 5-Me-furan-2-yl, Me, S, O), (N-1574: 5-Me-furan-2-yl, Me, S, O), (N-1575: 2-Thiazolyl, Me, S, O), (N-1576: 1:4-Benzodioxin-6-yl, Me, S, O), (N-1577: Benzo[b]furan-2-yl, Me, S, O), (N-1578: 4-NH₂CH₂-Ph, Me, S, O), (N-1579: 4-N(Me)HCH₂-Ph, Me, S, O), (N-1580: 4-N(Me)₂CH₂-Ph, Me, S, O), (N-1581: 6-Cl-pyridine-3-yl, Me, S, O), (N-1582: 5,6-diCl-pyridine-3-yl, Me, S, O), (N-1583: 5-Cl-pyridine-2-yl, Me, S, O), (N-1584: 4:5-diCl-pyridine-2-yl, Me, S, O), (N-1585: 4-CICH₂-Bn, Me, S, O), (N-1586: Bn, Me, S, O), (N-1587: 4-CI-Bn, Me, S, O), (N-1588: 4-Br-Bn, Me, S, O), (N-1589: 4-F-Bn, Me, S, O), (N-1590: 3,4-diCl-Bn, Me, S, O), (N-1591: 3,4-diBr-Bn, Me, S, O), (N-1592: 3,4-diF-Bn, Me, S, O), (N-1593: 4-Cl-Bz, Me, S, O), (N-1594: 3,4-diCl-Bz, Me, S, O), (N-1595: 4-Br-Bz, Me, S, O), (N-1596: 3,4-diBr-Bz, Me, S, O), (N-1597: 4-F-Bz, Me, S, O), (N-1598: 3,4-diF-Bz, Me, S, O), (N-1599: 4-NO₂-Bn, Me, S, O), (N-1600: 4-CN-Bn, Me, S, O), (N-1602: 4-F-Ph, Et, S, O), (N-1603: 4-Br-Ph, Et, S, O), (N-1604: 4-Me-Ph, Et, S, O), (N-1605: 4-Ph-Ph, Et, S, O), (N-1606: 4-OMe-Ph, Et, S, O), (N-1607: 4-tBu-Ph, Et, S, O), (N-1608: 4-COOMe-Ph, Et, S, O), (N-1609: 4-Pen-Ph, Et, S, O), (N-1610: 4-NO₂-Ph, Et, S, O), (N-1611: 5-Cl-thiophene-2-yl, Et, S, O), (N-1612: 3-Thienyl, Et, S, O), (N-1613: 2-Py, Et, S, O), (N-1614: 3-Py, Et, S, O), (N-1615: 4-Py, Et, S, O), (N-1616: 3,4-diF-Ph, Et, S, O), (N-1617: 5-Br-thiophene-2-yl, Et, S, O), (N-1618: 4-CONH₂-Ph, Et, S, O), (N-1619: 4-CON(Me) H-Ph, Et, S, O), (N-1620: 4-CON(Me)₂-Ph, Et, S, O), (N-1621: 4-iPrOC(=O)-Ph, Et, S, O), (N-1622: 4-nBuOC(=O)-Ph, Et, S, O), (N-1623: 6-Me-pyridine-3-yl, Et, S, O), (N-1624: Quinoline-3-yl, Et, S, O), (N-1625: 4-NH₂-Ph, Et, S, O), (N-1626: 4-N(Ac)H-Ph, Et, S, O), (N-1627: 4-OH-Ph, Et, S, O), (N-1628: 3,4-di(OH)₂-Ph, Et, S, O), (N-1629: 3,4-di(NH₂) -Ph, Et, S, O), (N-1630: 3:4-[N(Ac)H]₂-Ph, Et, S, O), (N-1631: 4-SH-Ph, Et, S, O), (N-1632: 4-SMe-Ph, Et, S, O), (N-1633: 3,4-diBr-Ph, Et, S, O), (N-1634: 4-N(Me)H-Ph, Et, S, O), (N-1635: 4-N(Me)2-Ph, Et, S, O), (N-1636: 4-N(Me)3+-Ph, Et, S, O), (N-1637: 4-Et-Ph, Et, S, O), (N-1638: 4-iPr-Ph, Et, S, O), (N-1639: 4-nPr-Ph, Et, S, O), (N-1640: 4-nBu-Ph, Et, S, O), (N-1641: 4-iBu-Ph, Et, S, O), (N-1642: 3,4-diMe-Ph, Et, S, O), (N-1643: 1,3-Benzodioxole-5-yl, Et, S, O), (N-1644: N-Me-pyridinium-4-yl, Et, S, O), (N-1645: N-Me-pyridinium-3-yl, Et, S, O), (N-1646: 5-Me-Pyridine-2-yl, Et, S, O), (N-1647: 2-Pyrazinyl, Et, S, O), (N-1648: 3-Pyrrolyl, Et, S, O), (N-1649: 1-Me-pyrrole-3-yl, Et, S, O), (N-1650: Pyridine N-oxide-4-yl, Et, S, O), (N-1651: Pyridine N-oxide-3-yl, Et, S, O), (N-1652: 6-OH-pyridine-3-yl, Et, S, O), (N-

1653: 6-SH-pyridine-3-yl, Et, S, O), (N-1654: 1-Ac-pyrrole-3-yl, Et, S, O), (N-1655: 4-CF₃-Ph, Et, S, O), (N-1656: 4-CN-Ph, Et, S, O), (N-1657: 4-CHO-Ph, Et, S, O), (N-1658: 3-Cl-Ph, Et, S, O), (N-1659: 3-Br-Ph, Et, S, O), (N-1660: 3-F-Ph, Et, S, O), (N-1661: 3-I-Ph, Et, S, O), (N-1662: 4-1-Ph, Et, S, O), (N-1663: 4-OCF₃-Ph, Et, S, O), (N-1664: 3,4-dil-Ph, Et, S, O), (N-1665: Indole-6-yl, Et, S, O), (N-1666: 1-Ac-indole-6-yl, Et, S, O), (N-1667: 1-Me-indole-6-yl, Et, S, O), (N-1668: 4-(1-Imidazolyl)-Ph, Et, S, O), (N-1669: 4-Morphorino-Ph, Et, S, O), (N-1670: 4-(1-Piperazinyl)-Ph, Et, S, O), (N-1671: 2:5-diMe-thiophene-3-yl, Et, S, O), (N-1672: 2-Furyl, Et, S, O), (N-1673: 5-Me-furan-2-yl, Et, S, O), (N-1674: 5-Me-furan-2-yl, Et, S, O), (N-1675: 2-Thiazolyl, Et, S, O), (N-1676: 1:4-Benzodioxin-6-yl, Et, S, O), (N-1677: Benzo[b]furan-2-yl, Et, S, O), (N-1678: 4-NH₂CH₂-Ph, Et, S, O), (N-1679: 4-N(Me)HCH₂-Ph, Et, S, O), (N-1680: 4-N (Me)₂CH₂-Ph, Et, S, O), (N-1681: 6-Cl-pyridine-3-yl, Et, S, O), (N-1682: 5,6-diCl-pyridine-3-yl, Et, S, O), (N-1683: 5-Cl-10 pyridine-2-y2, Et, S, O), (N-1684: 4:5-diCl-pyridine-2-yl, Et, S, O), (N-1685: 4-CICH₂-Bn, Et, S, O), (N-1686: Bn, Et, S, O), (N-1687: 4-CI-Bn, Et, S, O), (N-1688: 4-Br-Bn, Et, S, O), (N-1689: 4-F-Bn, Et, S, O), (N-1690: 3,4-diCI-Bn, Et, S, O), (N-1691: 3,4-diBr-Bn, Et, S, O), (N-1692: 3,4-diF-Bn, Et, S, O), (N-1693: 4-Cl-Bz, Et, S, O), (N-1694: 3,4-diCl-Bz, Et, S, O), (N-1695: 4-Br-Bz, Et, S, O), (N-1696: 3,4-diBr-Bz, Et, S, O), (N-1697: 4-F-Bz, Et, S, O), (N-1698: 3,4-diF-Bz, Et, S, O), (N-1699: 4-NO₂-Bn, Et, S, O), (N-1700: 4-CN-Bn, Et, S, O), (N-1701: Ph, COOMe, S, O), (N-1702: 4-F-Ph, COOMe, S, O), (N-1703: 4-Br-Ph, COOMe, S, O), (N-1704: 4-Me-Ph, COOMe, S, O), (N-1705: 4-Ph-Ph, COOMe, S, O), (N-1706: 4-OMe-Ph, COOMe, S, O), (N-1707: 4-tBu-Ph, COOMe, S, O), (N-1708: 4-COOMe-Ph, COOMe, S, O), (N-1709: 4-Pen-Ph, COOMe, S, O), (N-1710: 4-NO₂-Ph, COOMe, S, O), (N-1711: 5-Cl-thiophene-2-yl, COOMe, S, O), (N-1712: 3-Thienyl, COOMe, S, O), (N-1713: 2-Py, COOMe, S, O), (N-1714: 3-Py, COOMe, S, O), (N-1715: 4-Py, COOMe, S, O), (N-1716: 3,4-diF-Ph, COOMe, S, O), (N-1717: 5-Br-thiophene-2-yl, COOMe, S, O), (N-1718: 4-CONH₂-Ph, COOMe, S, O), (N-1719: 4-CON(Me)H-Ph, COOMe, S, O), (N-1720: 4-CON(Me)₂-Ph, COOMe, S, O), (N-1721: 4-iPrOC(=0)-Ph, COOMe, S, O), (N-1722: 4-nBuOC(=0)-Ph, COOMe, S, O), (N-1723: 6-Me-pyridine-3-yl, COOMe, S, O), (N-1724: Quinoline-3-yl, COOMe, S, O), (N-1725: 4-NH₂-Ph, COOMe, S, O), (N-1726: 4-N(Ac)H-Ph, COOMe, S, O), (N-1727: 4-OH-Ph, COOMe, S, O), (N-1728: 3,4-di(OH)₂-Ph, COOMe, S, O), (N-1729: 3,4-di(NH₂)-Ph, COOMe, S, O), (N-1730: 3:4-[N(Ac)H]₂-Ph, COOMe, S, O), (N-1731: 4-SH-Ph, COOMe, S, O), (N-1732: 4-SMe-Ph, COOMe, S, O), (N-1733: 3,4-diBr-Ph, COOMe, S, O), (N-1734: 4-N(Me)H-Ph, COOMe, S, O), (N-1735: 4-N(Me)₂-Ph, COOMe, S, O), (N-1736: 4-N(Me)₃+-Ph, COOMe, S, O), (N-1737: 4-Et-Ph, COOMe, S, O), (N-1738: 4-iPr-Ph, COOMe, S, O), (N-1739: 4-nPr-Ph, COOMe, S, O), (N-1740: 4-nBu-Ph, COOMe, S, O), (N-1741: 4-iBu-Ph, COOMe, S, O), (N-1742: 3,4-diMe-Ph, COOMe, S, O), (N-1743: 1,3-Benzodioxole-5-yl, COOMe, S, O), (N-1744: N-Me-pyridinium-4-yl, COOMe, S, O), (N-1745: N-Me-pyridinium-3-yl, COOMe, S, O), (N-1746: 5-Me-Pyridine-2-yl, COOMe, S, O), (N-1747: 2-Pyrazi-30 nyl, COOMe, S, O), (N-1748: 3-Pyrrolyl, COOMe, S, O), (N-1749: 1-Me-pyrrole-3-yl, COOMe, S, O), (N-1750: Pyridine N-oxide-4-yl, COOMe, S, O), (N-1751: Pyridine N-oxide-3-yl, COOMe, S, O), (N-1752: 6-OH-pyridine-3-yl, COOMe, S, O), (N-1753: 6-SH-pyridine-3-yl, COOMe, S, O), (N-1754: 1-Ac-pyrrole-3-yl, COOMe, S, O), (N-1755: 4-CF3-Ph, COOMe, S, O), (N-1756: 4-CN-Ph, COOMe, S, O), (N-1757: 4-CHO-Ph, COOMe, S, O), (N-1758: 3-CI-Ph, COOMe, S, O), (N-1759: 3-Br-Ph, COOMe, S, O), (N-1760: 3-F-Ph, COOMe, S, O), (N-1761: 3-I-Ph, COOMe, S, O), (N-1762: 35 4-I-Ph, COOMe, S, O), (N-1763: 4-OCF₃-Ph, COOMe, S, O), (N-1764: 3,4-dil-Ph, COOMe, S, O), (N-1765: Indole-6-yl, COOMe, S, O), (N-1766: 1-Ac-indole-6-yl, COOMe, S, O), (N-1767: 1-Me-indole-6-yl, COOMe, S, O), (N-1768: 4-(1-Imidazolyl)-Ph, COOMe, S, O), (N-1769: 4-Morphorino-Ph, COOMe, S, O), (N-1770: 4-(1-Piperazinyl)-Ph, COOMe, S, O), (N-1771: 2:5-diMe-thiophene-3-yl, COOMe, S, O), (N-1772: 2-Furyl, COOMe, S, O), (N-1773: 5-Mefuran-2-yl, COOMe, S, O), (N-1774: 5-Me-furan-2-yl, COOMe, S, O), (N-1775: 2-Thiazolyl, COOMe, S, O), (N-1776: 1:4-Benzodioxin-6-yl, COOMe, S, O), (N-1777: Benzo[b]furan-2-yl, COOMe, S, O), (N-1778: 4-NH2CH2-Ph, COOMe, S, O), (N-1779: 4-N(Me)HCH₂-Ph, COOMe, S, O), (N-1780: 4-N(Me)₂CH₂-Ph, COOMe, S, O), (N-1781: 6-Cl-pyridine-3-yl, COOMe, S, O), (N-1782: 5,6-diCl-pyridine-3-yl, COOMe, S, O), (N-1783: 5-Cl-pyridine-2-yl, COOMe, S, O), (N-1784: 4:5-diCl-pyridine-2-yl, COOMe, S, O), (N-1785: 4-CICH₂-Bn, COOMe, S, O), (N-1786: Bn, COOMe, S 1787: 4-Cl-Bn, COOMe, S, O), (N-1788: 4-Br-Bn, COOMe, S, O), (N-1789: 4-F-Bn, COOMe; S, O), (N-1790: 3,4-diCl-Bn, COOMe, S, O), (N-1791: 3,4-diBr-Bn, COOMe, S, O), (N-1792: 3,4-diF-Bn, COOMe, S, O), (N-1793: 4-Cl-Bz, COOMe, S, O), (N-1794: 3,4-diCl-Bz, COOMe, S, O), (N-1795: 4-Br-Bz, COOMe, S, O), (N-1796: 3,4-diBr-Bz, COOMe, S, O), (N-1797: 4-F-Bz, COOMe, S, O), (N-1798: 3,4-diF-Bz, COOMe, S, O), (N-1799: 4-NO₂-Bn, COOMe, S, O), (N-1800: 4-CN-Bn, COOMe, S, O), (N-1801: H, Ph, S, O), (N-1802: H, 4-F-Ph, S, O), (N-1803: H, 4-Br-Ph, S, O), (N-1804: H, 4-Me-Ph, S, O), (N-1805: H, 4-Ph-Ph, S, O), (N-1806: H, 4-OMe-Ph, S, O), (N-1807: H, 4-tBu-Ph, S, O), (N-1808: H, 4-COOMe-Ph, S, O), (N-1809: H, 4-Pen-Ph, S, O), (N-1810: H, 4-NO₂-Ph, S, O), (N-1811: H, 5-Cl-thiophene-2-yl, S, O), (N-1812: H, 3-Thienyl, S, O), (N-1813: H, 2-Py, S, O), (N-1814: H, 3-Py, S, O), (N-1815: H, 4-Py, S, O), (N-1816: H, 3,4-diF-Ph, S, O), (N-1817: H, 5-Br-thiophene-2-yl, S, O), (N-1818: H, 4-CONH₂-Ph, S, O), (N-1819: H, 4-CON(Me) H-Ph, S, O), (N-1820: H, 4-CON(Me)₂-Ph, S, O), (N-1821: H, 4-iPrOC(=O)-Ph, S, O), (N-1822: H, 4-nBuOC(=O)-Ph, S, O), (N-1823: H, 6-Me-pyridine-3-yl, S, O), (N-1824: H, Quinoline-3-yl, S, O), (N-1825: H, 4-NH₂-Ph, S, O), (N-1826: H, 4-N(Ac)H-Ph, S, O), (N-1827: H, 4-OH-Ph, S, O), (N-1828: H, 3,4-di(OH)2-Ph, S, O), (N-1829: H, 3,4-di(NH₂)-Ph, S, O), (N-1830: H, 3:4-[N(Ac)H]₂-Ph, S, O), (N-1831: H, 4-SH-Ph, S, O), (N-1832: H, 4-SMe-Ph, S, O), (N-1833: H, 3,4-diBr-Ph, S, O), (N-1834: H, 4-N(Me)H-Ph, S, O), (N-1835: H, 4-N(Me)₂-Ph, S, O), (N-1836: H, 4-N(Me)₃+-Ph, S, O), (N-1837: H, 4-Et-Ph, S, O), (N-1838: H, 4-iPr-Ph, S, O), (N-1839: H, 4-nPr-Ph, S, O), (N-1840: H, 4-nBu-Ph, S,

O), (N-1841: H, 4-iBu-Ph, S, O), (N-1842: H, 3,4-diMe-Ph, S, O), (N-1843: H, 1,3-Benzodioxole-5-yl, S, O), (N-1844: H, N-Me-pyridinium-4-yl, S, O), (N-1845: H, N-Me-pyridinium-3-yl, S, O), (N-1846: H, 5-Me-Pyridine-2-yl, S, O), (N-1847: H, 2-Pyrazinyl, S, O), (N-1848: H, 3-Pyrrolyl, S, O), (N-1849: H, 1-Me-pyrrole-3-yl, S, O), (N-1850: H, Pyridine N-oxide-4-yl, S, O), (N-1851: H, Pyridine N-oxide-3-yl, S, O), (N-1852: H, 6-OH-pyridine-3-yl, S, O), (N-1853: H, 6-SHpyridine-3-yl, S, O), (N-1854: H, 1-Ac-pyrrole-3-yl, S, O), (N-1855: H, 4-CF₃-Ph, S, O), (N-1856: H, 4-CN-Ph, S, O), (N-1857: H, 4-CHO-Ph, S, O), (N-1858: H, 3-Cl-Ph, S, O), (N-1859: H, 3-Br-Ph, S, O), (N-1860: H, 3-F-Ph, S, O), (N-1860: H, 3-F-P 1861: H, 3-I-Ph, S, O), (N-1862: H, 4-I-Ph, S, O), (N-1863: H, 4-OCF₃-Ph, S, O), (N-1864: H, 3,4-dil-Ph, S, O), (N-1865: H, Indole-6-yl, S, O), (N-1866: H, 1-Ac-indole-6-yl, S, O), (N-1867: H, 1-Me-indole-6-yl, S, O), (N-1868: H, 4-(1-Imidazolyl)-Ph, S, O), (N-1869: H, 4-Morphorino-Ph, S, O), (N-1870: H, 4-(1-Piperazinyl)-Ph, S, O), (N-1871: H, 2:5-diMethiophene-3-yl, S, O), (N-1872: H, 2-Furyl, S, O), (N-1873: H, 5-Me-furan-2-yl, S, O), (N-1874: H, 5-Me-furan-2-yl, S, O), (N-1875: H, 2-Thiazolyl, S, O), (N-1876: H, 1:4-Benzodioxin-6-yl, S, O), (N-1877: H, Benzo[b]furan-2-yl, S, O), (N-1878: H, 4-NH₂CH₂-Ph, S, O), (N-1879: H, 4-N(Me)HCH₂-Ph, S, O), (N-1880: H, 4-N(Me)₂CH₂-Ph, S, O), (N-1881: H, 6-Cl-pyridine-3-yl, S, O), (N-1882: H, 5,6-diCl-pyridine-3-yl, S, O), (N-1883: H, 5-Cl-pyridine-2-yl, S, O), (N-1884: H, 4:5-diCl-pyridine-2-yl, S, O), (N-1885: H, 4-ClCH₂-Bn, S, O), (N-1886: H, Bn, S, O), (N-1887: H, 4-Cl-Bn, S, O), (N-1888: H, 4-Br-Bn, S, O), (N-1889: H, 4-F-Bn, S, O), (N-1890: H, 3,4-diCl-Bn, S, O), (N-1891: H, 3,4-diBr-Bn, S, O), (N-1892: H, 3,4-diF-Bn, S, O), (N-1893: H, 4-Cl-Bz, S, O), (N-1894: H, 3,4-diCl-Bz, S, O), (N-1895: H, 4-Br-Bz, S, O), (N-1896: H, 3,4-diBr-Bz, S, O), (N-1897: H, 4-F-Bz, S, O), (N-1898: H, 3,4-diF-Bz, S, O), (N-1899: H, 4-NO₂-Bn, S, O), (N-1900: H, 4-CN-Bn, S, O), (N-1901: Et, Ph, S, O), (N-1902: Et, 4-F-Ph, S, O), (N-1903: Et, 4-Br-Ph, S, O), (N-1904: Et, 4-Me-Ph, S, O), (N-1905: Et, 4-Ph-Ph, S, O), (N-1906: Et, 4-OMe-Ph, S, O), (N-1907: Et, 4-tBu-Ph, S, O), (N-1908: Et, 4-COOMe-Ph, S, O), (N-1909: Et, 4-Pen-Ph, S, O), (N-1910: Et, 4-NO2-Ph, S, O), (N-1911: Et, 5-CI-thiophene-2-yl, S, O), (N-1912: Et, 3-Thienyl, S, O), (N-1913: Et, 2-Py, S, O), (N-1914: Et, 3-Py, S, O), (N-1915: Et, 4-Py, S, O), (N-1916: Et, 3,4-diF-Ph, S, O), (N-1917: Et, 5-Br-thiophene-2-yl, S, O), (N-1918: Et, 4-CONH₂-Ph, S, O), (N-1919: Et, 4-CON(Me)H-Ph, S, O), (N-1920: Et, 4-CON(Me)2-Ph, S, O), (N-1921: Et, 4-iPrOC(=O)-Ph, S, O), (N-1922: Et, 4-nBuOC(=0)-Ph, S, O), (N-1923: Et, 6-Me-pyridine-3-yl, S, O), (N-1924: Et, Quinoline-3-yl, S, O), (N-1925: Et, 4-NH₂-25 Ph, S, O), (N-1926: Et, 4-N(Ac)H-Ph, S, O), (N-1927: Et, 4-OH-Ph, S, O), (N-1928: Et, 3,4-di(OH)₂-Ph, S, O), (N-1929: Et, 3,4-di(NH₂)-Ph, S, O), (N-1930: Et, 3:4-[N(Ac)H]₂-Ph, S, O), (N-1931: Et, 4-SH-Ph, S, O), (N-1932: Et, 4-SMe-Ph, S, O), (N-1933: Et, 3,4-diBr-Ph, S, O), (N-1934: Et, 4-N(Me)H-Ph, S, O), (N-1935: Et, 4-N(Me)₂-Ph, S, O), (N-1936: Et, 4-N(Me)₃+-Ph, S, O), (N-1937: Et, 4-Et-Ph, S, O), (N-1938: Et, 4-iPr-Ph, S, O), (N-1939: Et, 4-nPr-Ph, S, O), (N-1940: Et, 4-nBu-Ph, S, O), (N-1941: Et, 4-iBu-Ph, S, O), (N-1942: Et, 3,4-diMe-Ph, S, O), (N-1943: Et, 1,3-Benzodioxole-30 5-yl, S, O), (N-1944: Et, N-Me-pyridinium-4-yl, S, O), (N-1945: Et, N-Me-pyridinium-3-yl, S, O), (N-1946: Et, 5-Me-Pyridine-2-yl, S, O), (N-1947: Et, 2-Pyrazinyl, S, O), (N-1948: Et, 3-Pyrrolyl, S, O), (N-1949: Et, 1-Me-pyrrole-3-yl, S, O), (N-1950: Et, Pyridine N-oxide-4-yl, S, O), (N-1951: Et, Pyridine N-oxide-3-yl, S, O), (N-1952: Et, 6-OH-pyridine-3-yl, S, O), (N-1953: Et, 6-SH-pyridine-3-yl, S, O), (N-1954: Et, 1-Ac-pyrrole-3-yl, S, O), (N-1955: Et, 4-CF₂-Ph, S, O), (N-1956: Et, 4-CN-Ph, S, O), (N-1957: Et, 4-CHO-Ph, S, O), (N-1958: Et, 3-CI-Ph, S, O), (N-1959: Et, 3-Br-Ph, S, O), (N-1960: Et, 3-F-Ph, S, O), (N-1961: Et, 3-I-Ph, S, O), (N-1962: Et, 4-I-Ph, S, O), (N-1963: Et, 4-OCF₃-Ph, S, O), (N-1964: Et, 3,4-dil-Ph, S, O), (N-1965: Et, Indole-6-yl, S, O), (N-1966: Et, 1-Ac-indole-6-yl, S, O), (N-1967: Et, 1-Meindole-6-yl, S, O), (N-1968: Et, 4-(1-Imidazolyl)-Ph, S, O), (N-1969: Et, 4-Morphorino-Ph, S, O), (N-1970: Et, 4-(1-Piperazinyl)-Ph, S, O), (N-1971: Et, 2:5-diMe-thiophene-3-yl, S, O), (N-1972: Et, 2-Furyl, S, O), (N-1973: Et, 5-Me-furan-2-yl, S, O), (N-1974: Et, 5-Me-furan-2-yl, S, O), (N-1975: Et, 2-Thiazolyl, S, O), (N-1976: Et, 1:4-Benzodioxin-6-yl, S, O), (N-1977: Et, Benzo[b]furan-2-yl, S, O), (N-1978: Et, 4-NH₂CH₂-Ph, S, O), (N-1979: Et, 4-N(Me)HCH₂-Ph, S, O), (N-1980: Et, 4-N(Me)₂CH₂-Ph, S, O), (N-1981: Et, 6-Cl-pyridine-3-yl, S, O), (N-1982: Et, 5,6-diCl-pyridine-3-yl, S, O), (N-1983: Et, 5-Cl-pyridine-2-yl, S, O), (N-1984: Et, 4:5-diCl-pyridine-2-yl, S, O), (N-1985: Et, 4-CICH₂-Bn, S, O), (N-1985: Et, 4-CICH₂-Bn, S, O), (N-1986: Et, 4-CICH₂-B 1986: Et, Bn, S, O), (N-1987: Et, 4-Cl-Bn, S, O), (N-1988: Et, 4-Br-Bn, S, O), (N-1989: Et, 4-F-Bn, S, O), (N-1990: Et; 3,4-diCl-Bn, S, O), (N-1991: Et, 3,4-diBr-Bn, S, O), (N-1992: Et, 3,4-diF-Bn, S, O), (N-1993: Et, 4-Cl-Bz, S, O), (N-1994: Et, 3,4-diCl-Bz, S, O), (N-1995: Et, 4-Br-Bz, S, O), (N-1996: Et, 3,4-diBr-Bz, S, O), (N-1997: Et, 4-F-Bz, S, O), (N-1998: Et, 3,4-diF-Bz, S, O), (N-1999: Et, 4-NO₂-Bn, S, O), (N-2000: Et, 4-CN-Bn, S, O), (N-2001: COOMe, Ph, S, O), (N-2002: COOMe, 4-F-Ph, S, O), (N-2003: COOMe, 4-Br-Ph, S, O), (N-2004: COOMe, 4-Me-Ph, S, O), (N-2005: COOMe, 4-Ph-Ph, S, O), (N-2006: COOMe, 4-OMe-Ph, S, O), (N-2007: COOMe, 4-tBu-Ph, S, O), (N-2008: COOMe, 4-COOMe-Ph, S, O), (N-2009: COOMe, 4-Pen-Ph, S, O), (N-2010: COOMe, 4-NO2-Ph, S, O), (N-2011: COOMe, 5-CIthiophene-2-yl, S, O), (N-2012: COOMe, 3-Thienyl, S, O), (N-2013: COOMe, 2-Py, S, O), (N-2014: COOMe, 3-Py, S, O), (N-2015: COOMe, 4-Py, S, O), (N-2016: COOMe, 3,4-diP-Ph, S, O), (N-2017: COOMe, 5-Br-thiophene-2-yl, S, O), (N-2018: COOMe, 4-CONH₂-Ph, S, O), (N-2019: COOMe, 4-CON(Me)H-Ph, S, O), (N-2020: COOMe, 4-CON(Me)₂-Ph, S, O), (N-2021: COOMe, 4-iPrOC(=0)-Ph, S, O), (N-2022: COOMe, 4-nBuOC(=0)-Ph, S, O), (N-2023: COOMe, 6-Me-pyridine-3-yl, S, O), (N-2024: COOMe, Quinoline-3-yl, S, O), (N-2025: COOMe, 4-NH₂-Ph, S, O), (N-2026: COOMe, 4-N(Ac)H-Ph, S, O), (N-2027: COOMe, 4-OH-Ph, S, O), (N-2028: COOMe, 3,4-di(OH)₂-Ph, S, O), (N-2029: COOMe, 3,4-di(NH₂)-Ph, S, O), (N-2030: COOMe, 3:4-[N(Ac)H]₂-Ph, S, O), (N-2031: COOMe, 4-SH-Ph, S, O), (N-2030: COOMe, 3:4-[N(Ac)H]₂-Ph, S, O), (N-2030: COOMe, 4-SH-Ph, S, O), (N-2030: COOMe, 3:4-[N(Ac)H]₂-Ph, S, O), (N-2030: COOMe, 4-SH-Ph, S, O), (N-2030: COOMe, 3:4-[N(Ac)H]₂-Ph, S, O), (N-2030: COOMe, 4-SH-Ph, S, O), (N-2030: COOMe, 4-2032: COOMe, 4-SMe-Ph, S, O), (N-2033: COOMe, 3,4-diBr-Ph, S, O), (N-2034: COOMe, 4-N(Me)H-Ph, S, O), (N-2035: COOMe, 4-N(Me)₂-Ph, S, O), (N-2036: COOMe, 4-N(Me)₃+-Ph, S, O), (N-2037: COOMe, 4-Et-Ph, S, O), (N-

2038: COOMe, 4-iPr-Ph, S, O), (N-2039: COOMe, 4-nPr-Ph, S, O), (N-2040: COOMe, 4-nBu-Ph, S, O), (N-2041: COOMe, 4-iBu-Ph, S, O), (N-2042: COOMe, 3,4-diMe-Ph, S, O), (N-2043: COOMe, 1,3-Benzodioxole-6-yl, S, O), (N-2044: COOMe, N-Me-pyridinium-4-yl, S, O), (N-2045: COOMe, N-Me-pyridinium-3-yl, S, O), (N-2046: COOMe, 5-Me-Pyridine-2-yl, S, O), (N-2047: COOMe, 2-Pyrazinyl, S, O), (N-2048: COOMe, 3-Pyrrolyl, S, O), (N-2049: COOMe, 1-Me-pyrrole-3-yl, S, O), (N-2050: COOMe, Pyridine N-oxide-4-yl, S, O), (N-2051: COOMe, Pyridine N-oxide-3-yl, S, O), (N-2052: COOMe, 6-OH-pyridine-3-yl, S, O), (N-2053: COOMe, 6-SH-pyridine-3-yl, S, O), (N-2054: COOMe, 1-Acpyrrole-3-yl, S, O), (N-2055: COOMe, 4-CF₃-Ph, S, O), (N-2056: COOMe, 4-CN-Ph, S, O), (N-2057: COOMe, 4-CHO-Ph, S, O), (N-2058: COOMe, 3-CI-Ph, S, O), (N-2059: COOMe, 3-Br-Ph, S, O), (N-2060: COOMe, 3-F-Ph, S, O), (N-2061: COOMe, 3-I-Ph, S, O), (N-2062: COOMe, 4-I-Ph, S, O), (N-2063: COOMe, 4-OCF₃-Ph, S, O), (N-2064: COOMe, 3,4-dil-Ph, S, O), (N-2065: COOMe, Indole-6-yl, S, O), (N-2066: COOMe, 1-Ac-indole-6-yl, S, O), (N-2067: COOMe, 1-Me-indole-6-yl, S, O), (N-2068: COOMe, 4-(1-Imidazolyl)-Ph, S, O), (N-2069: COOMe, 4-Morphorino-Ph, S, O), (N-2070: COOMe, 4-(1-Piperazinyl)-Ph, S, O), (N-2071: COOMe, 2:5-diMe-thiophene-3-yl, S, O), (N-2072: COOMe, 2-Furyl, S, O), (N-2073: COOMe, 5-Me-furan-2-yl, S, O), (N-2074: COOMe, 5-Me-furan-2-yl, S, O), (N-2075: COOMe, 2-Thiazolyl, S, O), (N-2076: COOMe, 1:4-Benzodioxin-6-yl, S, O), (N-2077: COOMe, Benzo[b]furan-2-yl, S, O), (N-2078: COOMe, 4-NH2CH2-Ph, S, O), (N-2079: COOMe, 4-N(Me)HCH2-Ph, S, O), (N-2080: COOMe, 4-N (Me)₂CH₂-Ph, S, O), (N-2081: COOMe, 6-Cl-pyridine-3-yl, S, O), (N-2082: COOMe, 5,6-diCl-pyridine-3-yl, S, O), (N-2083: COOMe, 5-Cl-pyridine-2-yl, S, O), (N-2084: COOMe, 4:5-diCl-pyridine-2-yl, S, O), (N-2085: COOMe, 4-CICH₂-Bn, S, O), (N-2086: COOMe, Bn, S, O), (N-2087: COOMe, 4-Cl-Bn, S, O), (N-2088: COOMe, 4-Br-Bn, S, O), (N-2089: COOMe, 4-F-Bn, S, O), (N-2090: COOMe, 3,4-diCl-Bn, S, O), (N-2091: COOMe, 3,4-diBr-Bn, S, O), (N-2092: COOMe, 3,4-diF-Bn, S, O), (N-2093: COOMe, 4-Cl-Bz, S, O), (N-2094: COOMe, 3,4-diCl-Bz, S, O), (N-2095: COOMe, 4-Br-Bz, S, O), (N-2096: COOMe, 3,4-diBr-Bz, S, O), (N-2097: COOMe, 4-F-Bz, S, O), (N-2098: COOMe, 3,4-diF-Bz, S, O), (N-2099: COOMe, 4-NO₂-Bn, S, O), (N-2100: COOMe, 4-CN-Bn, S, O), (N-2101: Ph, Me, O, O), (N-2102: 4-F-Ph, Me, O, O), (N-2103: 4-Br-Ph, Me, O, O), (N-2104: 4-Me-Ph, Me, O, O), (N-2105: 4-Ph-Ph, Me, O, O), (N-2106: 4-OMe-25 2110: 4-NO₂-Ph, Me, O, O), (N-2111: 5-Cl-thiophene-2-yl, Me, O, O), (N-2112: 3-Thienyl, Me, O, O), (N-2113: 2-Py, Me, O, O), (N-2114: 3-Py, Me, O, O), (N-2115: 4-Py, Me, O, O), (N-2116: 3,4-diF-Ph, Me, O, O), (N-2117: 5-Br-thiophene-2-yl, Me, O, O), (N-2118: 4-CONH₂-Ph, Me, O, O), (N-2119: 4-CON(Me)H-Ph, Me, O, O), (N-2120: 4-CON(Me)₂-Ph, Me, O, O), (N-2121: 4-iPrOC(=O)-Ph, Me, O, O), (N-2122: 4-nBuOC(=O)-Ph, Me, O, O), (N-2123: 6-Me-pyridine-3-yl, Me, O, O), (N-2124: Quinoline-3-yl, Me, O, O), (N-2125: 4-NH₂-Ph, Me, O, O), (N-2126: 4-N(Ac)H-Ph, Me, O, O), (N-2127: 4-OH-Ph, Me, O, O), (N-2128: 3,4-di(OH)₂-Ph, Me, O, O), (N-2129: 3,4-di(NH₂)-Ph, Me, O, O), (N-2130: 3:4-[N (Ac)H]₂-Ph, Me, O, O), (N-2131: 4-SH-Ph, Me, O, O), (N-2132: 4-SMe-Ph, Me, O, O), (N-2133: 3,4-diBr-Ph, Me, O, O), (N-2134: 4-N(Me)H-Ph, Me, O, O), (N-2135: 4-N(Me)₂-Ph, Me, O, O), (N-2136: 4-N(Me)₃+-Ph, Me, O, O), (N-2137: 4-Et-Ph, Me, O, O), (N-2138: 4-iPr-Ph, Me, O, O), (N-2139: 4-nPr-Ph, Me, O, O), (N-2140: 4-nBu-Ph, Me, O, O), (N-2141: 4-iBu-Ph, Me, O, O), (N-2142: 3,4-diMe-Ph, Me, O, O), (N-2143: 1,3-Benzodioxole-5-yl, Me, O, O), (N-2144: N-Me-pyridinium-4-yl, Me, O, O), (N-2145: N-Me-pyridinium-3-yl, Me, O, O), (N-2146: 5-Me-Pyridine-2-yl, Me, O, O), (N-2147: 2-Pyrazinyl, Me, O, O), (N-2148: 3-Pyrrolyl, Me, O, O), (N-2149: 1-Me-pyrrole-3-yl, Me, O, O), (N-2150: Pyridine N-oxide-4-yl, Me, O, O), (N-2151: Pyridine N-oxide-3-yl, Me, O, O), (N-2152: 6-OH-pyridine-3-yl, Me, O, O), (N-2153: 6-SH-pyridine-3-yl, Me, O, O), (N-2154: 1-Ac-pyrrole-3-yl, Me, O, O), (N-2155: 4-CF₃-Ph, Me, O, O), (N-2156: 4-CN-Ph, Me, O, O), (N-2157: 4-CHO-Ph, Me, O, O), (N-2158: 3-CI-Ph, Me, O, O), (N-2159: 3-Br-Ph, Me, O, O), (N-2160: 3-F-Ph, Me, O, O), (N-2161: 3-I-Ph, Me, O, O), (N-2162: 4-I-Ph, Me, O, O), (N-2163: 4-OCF₃-Ph, Me, O, O), (N-2164: 3,4-dil-Ph, Me, O, O), (N-2165: Indole-6-yl, Me, O, O), (N-2166: 1-Ac-indole-6-yl, Me, O, O), (N-2167: 1-Meindole-6-yl, Me, O, O), (N-2168: 4-(1-Imidazolyl)-Ph, Me, O, O), (N-2169: 4-Morphorino-Ph, Me, O, O), (N-2170: 4-(1-Piperazinyl)-Ph, Me, O, O), (N-2171: 2:5-diMe-thiophene-3-yl, Me, O, O), (N-2172: 2-Furyl, Me, O, O), (N-2173: 5-Me-furan-2-yl, Me, O, O), (N-2174: 5-Me-furan-2-yl, Me, O, O), (N-2175: 2-Thiazolyl, Me, O, O), (N-2176: 1:4-Benzodioxin-6-yl, Me, O, O), (N-2177: Benzo[b]furan-2-yl, Me, O, O), (N-2178: 4-NH₂CH₂-Ph, Me, O, O), (N-2179: 4-N (Me)HCH₂-Ph, Me, O, O), (N-2180: 4-N(Me)₂CH₂-Ph, Me, O, O), (N-2181: 6-Cl-pyridine-3-yl, Me, O, O), (N-2182: 5,6-diCl-pyridine-3-yl, Me, O, O), (N-2183: 5-Cl-pyridine-2-yl, Me, O, O), (N-2184: 4:5-diCl-pyridine-2-yl, Me, O, O), (N-2185: 4-CICH₂-Bn, Me, O, O), (N-2186: Bn, Me, O, O), (N-2187: 4-CI-Bn, Me, O, O), (N-2188: 4-Br-Bn, Me, O, O), (N-2189: 4-F-Bn, Me, O, O), (N-2190: 3,4-diCl-Bn, Me, O, O), (N-2191: 3,4-diBr-Bn, Me, O, O), (N-2192: 3,4-diF-Bn, Me, O, O), (N-2193: 4-Cl-Bz, Me, O, O), (N-2194: 3,4-diCl-Bz, Me, O, O), (N-2195: 4-Br-Bz, Me, O, O), (N-2196: 3,4-diBr-Bz, Me, O, O), (N-2197: 4-F-Bz, Me, O, O), (N-2198: 3,4-diF-Bz, Me, O, O), (N-2199: 4-NO₂-Bn, Me, O, O), (N-2200: 4-CN-Bn, Me, O, O), (N-2201: Ph, Et, O, O), (N-2202: 4-F-Ph, Et, O, O), (N-2203: 4-Br-Ph, Et, O, O), (N-2204: 4-Me-Ph, Et, O, O), (N-2205: 4-Ph-Ph, Et, O, O), (N-2206: 4-OMe-Ph, Et, O, O), (N-2207: 4-tBu-Ph, Et, O, O), (N-2208: 4-COOMe-Ph, Et, O, O), (N-2209: 4-Pen-Ph, Et, O, O), (N-2210: 4-NO₂-Ph, Et, O, O), (N-2211: 5-CI-thiophene-2-yl, Et, O, O), (N-2212: 3-Thienyl, Et, O, O), (N-2213: 2-Py, Et, O, O), (N-2214: 3-Py, Et, O, O), (N-2215: 4-Py, Et, O, O), (N-2216: 3,4-diF-Ph, Et, O, O), (N-2217: 5-Br-thiophene-2-yl, Et, O, O), (N-2218: 4-CONH₂-Ph, Et, O, O), (N-2219: 4-CON(Me)H-Ph, Et, O, O), (N-2220: 4-CON(Me)₂-Ph, Et, O, O), (N-2221: 4-iPrOC(=O)-Ph, Et, O, O), (N-2220: 4-iPrOC(=O)-Ph, Et, O 2222: 4-nBuOC(=O)-Ph, Et, O, O), (N-2223: 6-Me-pyridine-3-yl, Et, O, O), (N-2224: Quinoline-3-yl, Et, O, O), (N-2225:

4-NH₂-Ph, Et, O, O), (N-2226: 4-N(Ac)H-Ph, Et, O, O), (N-2227: 4-OH-Ph, Et, O, O), (N-2228: 3,4-di(OH)₂-Ph, Et, O, O), (N-2229: 3,4-di(NH₂)-Ph, Et, O, O), (N-2230: 3:4-[N(Ac)H]₂-Ph, Et, O, O), (N-2231: 4-SH-Ph, Et, O, O), (N-2232: 4-SMe-Ph, Et, O, O), (N-2233: 3,4-diBr-Ph, Et, O, O), (N-2234: 4-N(Me)H-Ph, Et, O, O), (N-2235: 4-N(Me)2-Ph, Et, O, O), O), (N-2236: 4-N(Me)₃+-Ph, Et, O, O), (N-2237: 4-Et-Ph, Et, O, O), (N-2238: 4-iPr-Ph, Et, O, O), (N-2239: 4-nPr-Ph, Et, O, O), (N-2240: 4-nBu-Ph, Et, O, O), (N-2241: 4-iBu-Ph, Et, O, O), (N-2242: 3,4-diMe-Ph, Et, O, O), (N-2243: 1,3-Benzodioxole-5-yl, Et, 0, O), (N-2244: N-Me-pyridinium-4-yl, Et, O, O), (N-2245: N-Me-pyridinium-3-yl, Et, O, O), (N-2246: 6-Me-Pyridine-2-yl, Et, O, O), (N-2247: 2-Pyrazinyl, Et, O, O), (N-2248: 3-Pyrrolyl, Et, O, O), (N-2249: 1-Mepyrrole-3-yl, Et, O, O), (N-2250: Pyridine N-oxide-4-yl, Et, O, O), (N-2251: Pyridine N-oxide-3-yl, Et, O, O), (N-2252: 6-OH-pyridine-3-yl, Et, O, O), (N-2253: 6-SH-pyridine-3-yl, Et, O, O), (N-2254: 1-Ac-pyrrole-3-yl, Et, O, O), (N-2255: 4-CF₃-Ph, Et, O, O), (N-2256: 4-CN-Ph, Et, O, O), (N-2257: 4-CHO-Ph, Et, O, O), (N-2258: 3-CI-Ph, Et, O, O), (N-2259: 3-Br-Ph, Et, O, O), (N-2260: 3-F-Ph, Et, O, O), (N-2261: 3-I-Ph, Et, O, O), (N-2262: 4-I-Ph, Et, O, O), (N-2263: 4-OCF₃-Ph, Et, O, O), (N-2264: 3,4-dil-Ph, Et, O, O), (N-2265: Indole-6-yl, Et, O, O), (N-2266: 1-Ac-indole-6-yl, Et, O, O), (N-2267: 1-Me-indole-6-yl, Et, O, O), (N-2268: 4-(1-Imidazolyl)-Ph, Et, O, O), (N-2269: 4-Morphorino-Ph, Et, O, O), (N-2270: 4-(1-Piperazinyl)-Ph, Et, O, O), (N-2271: 2:5-diMe-thiophene-3-yl, Et, O, O), (N-2272: 2-Furyl, Et, O, O), (N-2273: 5-Me-furan-2-yl, Et, O, O), (N-2274: 5-Me-furan-2-yl, Et, O, O), (N-2275: 2-Thiazolyl, Et, O, O), (N-2276: 1: 4-Benzodioxin-6-yl, Et, O, O), (N-2277: Benzo[b]furan-2-yl, Et, O, O), (N-2278: 4-NH2CH2-Ph, Et, O, O), (N-2279: 4-N (Me)HCH₂-Ph, Et, O, O), (N-2280: 4-N(Me)₂CH₂-Ph, Et, O, O), (N-2281: 6-Cl-pyridine-3-yl, Et, O, O), (N-2282: 5,6-diClpyridine-3-yl, Et, O, O), (N-2283: 5-Cl-pyridine-2-yl, Et, O, O), (N-2284: 4:5-diCl-pyridine-2-yl, Et, O, O), (N-2285: 4-CICH₂-Bn, Et, O, O), (N-2286: Bn, Et, O, O), (N-2287: 4-CI-Bn, Et, O, O), (N-2288: 4-Br-Bn, Et, O, O), (N-2289: 4-F-Bn, Et, O, O), (N-2290: 3,4-diCl-Bn, Et, O, O), (N-2291: 3,4-diBr-Bn, Et, O, O), (N-2292: 3,4-diF-Bn, Et, O, O), (N-2292: 2293: 4-Cl-Bz, Et, O, O), (N-2294: 3,4-diCl-Bz, Et, O, O), (N-2295: 4-Br-Bz, Et, O, O), (N-2296: 3,4-diBr-Bz, Et, O, O), O), (N-2301: Ph, COOMe, O, O), (N-2302: 4-F-Ph, COOMe, O, O), (N-2303: 4-Br-Ph, COOMe, O, O), (N-2304: 4-Me-Ph, COOMe, O, O), (N-2305: 4-Ph-Ph, COOMe, O, O), (N-2306: 4-OMe-Ph, COOMe, O, O), (N-2307: 4-tBu-Ph, COOMe, O, O), (N-2308: 4-COOMe-Ph, COOMe, O, O), (N-2309: 4-Pen-Ph, COOMe, O, O), (N-2310: 4-NO₂-Ph, COOMe, O, O), (N-2311: 5-Cl-thiophene-2-yl, COOMe, O, O), (N-2312: 3-Thienyl, COOMe, O, O), (N-2313: 2-Py, COOMe, O, O), (N-2314: 3-Py, COOMe, O, O), (N-2315: 4-Py, COOMe, O, O), (N-2316: 3,4-diF-Ph, COOMe, O, O), (N-2317: 5-Br-thiophene-2-yl, COOMe, O, O), (N-2318: 4-CONH₂-Ph, COOMe, O, O), (N-2319: 4-CON(Me)H-Ph, COOMe, O, O), (N-2320: 4-CON(Me)₂-Ph, COOMe, O, O), (N-2321: 4-iPrOC(=O)-Ph, COOMe, O, O), (N-2322: 4-nBuOC(=O)-Ph, COOMe, O, O), (N-2323: 6-Me-pyridine-3-yl, COOMe, O, O), (N-2324: Quinoline-3-yl, COOMe, O, O), (N-2325: 4-NH₂-Ph, COOMe, O, O), (N-2326: 4-N(Ac)H-Ph, COOMe, O, O), (N-2327: 4-OH-Ph, COOMe, O, O), $(N-2328: 3,4-di(OH)_2-Ph, COOMe, O, O), (N-2329: 3,4-di(NH_2)-Ph, COOMe, O, O), (N-2330: 3:4-[N(Ac)H]_2-Ph, COOMe, O, O)$ COOMe, O, O), (N-2331: 4-SH-Ph, COOMe, O, O), (N-2332: 4-SMe-Ph, COOMe, O, O), (N-2333: 3,4-diBr-Ph, COOMe, O, O), (N-2334: 4-N(Me)H-Ph, COOMe, O, O), (N-2335: 4-N(Me)₂-Ph, COOMe, O, O), (N-2336: 4-N(Me)₃+-Ph, COOMe, O, O), (N-2337: 4-Et-Ph, COOMe, O, O), (N-2338: 4-iPr-Ph, COOMe, O, O), (N-2339: 4-nPr-Ph, COOMe, O, O), (N-2340: 4-nBu-Ph, COOMe, O, O), (N-2341: 4-iBu-Ph, COOMe, O, O), (N-2342: 3,4-diMe-Ph, COOMe, O, O), (N-2343: 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4-Br-Bz, COOMe, O, O), (N-2396: 3,4-diBr-Bz, COOMe, O, O), (N-2397: 4-F-Bz, COOMe, O, O), (N-2398: 3,4-diF-Bz, COOMe, O, O), (N-2399: 4-NO₂-Bn, COOMe, O, O), (N-2400: 4-CN-Bn, COOMe, O, O), (N-2401: H, Ph, O, O), (N-2402: H, 4-F-Ph, O, O), (N-2403: H, 4-Br-Ph, O, O), (N-2404: H, 4-Me-Ph, O, O), (N-2405: H, 4-Ph-Ph, O, O), (N-2406: H, 4-OMe-Ph, O, O), (N-2407: H, 4-tBu-Ph, O, O), (N-2408: H,

4-COOMe-Ph, O, O), (N-2409: H, 4-Pen-Ph, O, O), (N-2410: H, 4-NO₂-Ph, O, O), (N-2411: H, 5-Cl-thiophene-2-yl, O, O), (N-2412: H, 3-Thienyl, O, O), (N-2413: H, 2-Py, O, O), (N-2414: H, 3-Py, O, O), (N-2415: H, 4-Py, O, O), (N-2416: H, 3,4-diF-Ph, O, O), (N-2417: H, 5-Br-thiophene-2-yl, O, O), (N-2418: H, 4-CONH₂-Ph, O, O), (N-2419: H, 4-CON (Me)H-Ph, O, O), (N-2420: H, 4-CON(Me)₂-Ph, O, O), (N-2421: H, 4-iPrOC(=O)-Ph, O, O), (N-2422: H, 4-nBuOC(=O) 2426: H, 4-N(Ac)H-Ph, O, O), (N-2427: H, 4-OH-Ph, O, O), (N-2428: H, 3,4-di(OH)₂-Ph, O, O), (N-2429: H, 3,4-di(NH₂) -Ph, O, O), (N-2430: H, 3:4-[N(Ac)H]₂-Ph, O, O), (N-2431: H, 4-SH-Ph, O, O), (N-2432: H, 4-SMe-Ph, O, O), (N-2433: H, 3,4-diBr-Ph, O, O), (N-2434: H, 4-N(Me)H-Ph, O, O), (N-2435: H, 4-N(Me)₂-Ph, O, O), (N-2436: H, 4-N(Me)₃+Ph, O, O), (N-2437: H, 4-Et-Ph, O, O), (N-2438: H, 4-iPr-Ph, O, O), (N-2439: H, 4-nPr-Ph, O, O), (N-2440: H, 4-nBu-Ph, O, O), (N-2441: H, 4-iBu-Ph, O, O), (N-2442: H, 3,4-diMe-Ph, O, O), (N-2443: H, 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(N-2500: H, 4-CN-Bn, O, O), (N-2501: Me, Ph, O, O), (N-2502: Me, 4-F-Ph, O, O), (N-2503: Me, 4-Br-Ph, O, O), (N-2504: Me, 4-Me-Ph, O, O), (N-2505: Me, 4-Ph-Ph, O, O), (N-2506: Me, 4-OMe-Ph, O, O), (N-2507: Me, 4-tBu-Ph, O, O), (N-2508: Me, 4-COOMe-Ph, O, O), (N-2509: Me, 4-Pen-Ph, O, O), (N-2510: Me, 4-NO₂-Ph, O, O), (N-2511: Me, 5-Cl-thiophene-2-yl, O, O), (N-2512: Me, 3-Thienyl, O, O), (N-2513: Me, 2-Py, O, O), (N-2514: Me, 3-Py, O, O), (N-2515: Me, 4-Py, O, O), (N-2516: Me, 3,4-diF-Ph, O, O), (N-2517: Me, 5-Br-thiophene-2-yl, O, O), (N-2518: Me, 4-CONH₂-Ph, O, O), (N-2519: Me, 4-CON(Me)H-Ph, O, O), (N-2520: Me, 4-CON(Me)₂-Ph, O, O), (N-2521: Me, 4-iPrOC(=O)-Ph, O, O), (N-2522: Me, 4-nBuOC(=O)-Ph, O, O), (N-2523: Me, 6-Me-pyridine-3-yl, O, O), (N-2524: Me, Quinoline-3-yl, O, O), (N-2525: Me, 4-NH₂-Ph, O, O), (N-2526: Me, 4-N(Ac)H-Ph, O, O), (N-2527: Me, 4-OH-Ph, O, O), (N-2528: Me, 3,4-di(OH)₂-Ph, O, O), (N-2529: Me, 3,4-di(NH₂)-Ph, O, O), (N-2530: Me, 3:4-[N(Ac)H]₂-Ph, O, O), (N-2531: Me, 4-SH-Ph, O, O), (N-2532: Me, 4-SMe-Ph, O, O), (N-2533: Me, 3,4-diBr-Ph, O, O), (N-2534: Me, 4-N(Me) H-Ph, O, O), (N-2535: Me, 4-N(Me)₂-Ph, O, O), (N-2536: Me, 4-N(Me)₃+-Ph, O, O), (N-2537: Me, 4-Et-Ph, O, O), (N-2536: Me, 4-N(Me)₂-Ph, O, O), (N-2536: Me, 4-N(Me)₃+-Ph, O, O), (N-2536: Me, 4-N(Me)₃+-P 2538: Me, 4-iPr-Ph, O, O), (N-2539: Me, 4-nPr-Ph, O, O), (N-2540: Me, 4-nBu-Ph, O, O), (N-2541: Me, 4-iBu-Ph, O, O), (N-2542: Me, 3,4-diMe-Ph, O, O), (N-2543: Me, 1,3-Benzodioxole-5-yl, O, O), (N-2544: Me, N-Me-pyridinium-4-yl, O, O), (N-2545: Me, N-Me-pyridinium-3-yl, O, O), (N-2546: Me, 5-Me-Pyridine-2-yl, O, O), (N-2547: Me, 2-Pyrazinyl, O, O), (N-2548: Me, 3-Pyrrolyl, O, O), (N-2549: Me, 1-Me-pyrrole-3-yl, O, O), (N-2550: Me, Pyridine N-oxide-4-yl, O, O), (N-2551: Me, Pyridine N-oxide-3-yl, O, O), (N-2552: Me, 6-OH-pyridine-3-yl, O, O), (N-2553: Me, 6-SH-pyridine-3-yl, O, O), (N-2554: Me, 1-Ac-pyrrole-3-yl, O, O), (N-2555: Me, 4-CF₃-Ph, O, O), (N-2556: Me, 4-CN-Ph, O, O), (N-2557: Me, 4-CHO-Ph, O, O), (N-2558: Me, 3-Cl-Ph, O, O), (N-2559: Me, 3-Br-Ph, O, O), (N-2560: Me, 3-F-Ph, O, O), O), (N-2565: Me, Indole-6-yl, O, O), (N-2566: Me, 1-Ac-indole-6-yl, O, O), (N-2567: Me, 1-Me-indole-6-yl, O, O), (N-2565: Me, 1-Me-indole-6-yl, O, O), (N-2565: Me, 1-Me-indole-6-yl, O, O), (N-2566: Me, 1-Ac-indole-6-yl, O, O), (N-2567: Me, 1-Me-indole-6-yl, O, O), (N-2566: Me, 1-Ac-indole-6-yl, O, O), (N-2567: Me, 1-Me-indole-6-yl, O, O), (N-2566: Me, 1-Ac-indole-6-yl, O, O), (N-2567: Me, 1-Me-indole-6-yl, O, O), (N-2566: Me, 1-Ac-indole-6-yl, O, 2568: Me, 4-(1-Imidazolyl)-Ph, O, O), (N-2569: Me, 4-Morphorino-Ph, O, O), (N-2570: Me, 4-(1-Piperazinyl)-Ph, O, O), (N-2571: Me, 2:5-diMe-thiophene-3-yl, O, O), (N-2572: Me, 2-Furyl, O, O), (N-2573: Me, 5-Me-furan-2-yl, O, O), (N-2574: Me, 2-Furyl, O, O), (N-2575: Me, 2-Furyl, 2574: Me, 5-Me-furan-2-yl, O, O), (N-2575: Me, 2-Thiazolyl, O, O), (N-2576: Me, 1:4-Benzodioxin-6-yl, O, O), (N-2577: Me, Benzo[b]furan-2-yl, O, O), (N-2578: Me, 4-NH₂CH₂-Ph, O, O), (N-2579: Me, 4-N(Me)HCH₂-Ph, O, O), (N-2580: 2583: Me, 5-Cl-pyridine-2-yl, O, O), (N-2584: Me, 4:5-diCl-pyridine-2-yl, O, O), (N-2585: Me, 4-CICH₂-Bn, O, O), (N-2586: Me, Bn, O, O), (N-2587: Me, 4-Cl-Bn, O, O), (N-2588: Me, 4-Br-Bn, O, O), (N-2589: Me, 4-F-Bn, O, O), (N-2590: Me, 3,4-diCl-Bn, O, O), (N-2591: Me, 3,4-diBr-Bn, O, O), (N-2592: Me, 3,4-diF-Bn, O, O), (N-2593: Me, 4-Cl-Bz, O, O), (N-2594: Me, 3,4-diCl-Bz, O, O), (N-2595: Me, 4-Br-Bz, O, O), (N-2596: Me, 3,4-diBr-Bz, O, O), (N-2597: Me, 4-F-Bz, O, O), (N-2598: Me, 3,4-diF-Bz, O, O), (N-2599: Me, 4-NO₂-Bn, O, O), (N-2600: Me, 4-CN-Bn, O, O), (N-2601: Et, Ph, O, O), (N-2602: Et, 4-F-Ph, O, O), (N-2603: Et, 4-Br-Ph, O, O), (N-2604: Et, 4-Me-Ph, 0, O), (N-2605: Et, 4-Ph-Ph, O, O), (N-2606: Et, 4-OMe-Ph, O, O), (N-2607: Et, 4-tBu-Ph, O, O), (N-2608: Et, 4-COOMe-Ph, O, O), (N-2609:

Et, 4-Pen-Ph, O, O), (N-2610: Et, 4-NO₂-Ph, O, O), (N-2611: Et, 5-Cl-thiophene-2-yl, O, O), (N-2612: Et, 3-Thienyl, O, O), (N-2613: Et, 2-Py, O, O), (N-2614: Et, 3-Py, O, O), (N-2615: Et, 4-Py, O, O), (N-2616: Et, 3,4-diF-Ph, O, O), (N-2617: Et, 5-Br-thiophene-2-yl, O, O), (N-2618: Et, 4-CONH2-Ph, O, O), (N-2619: Et, 4-CON(Me)H-Ph, O, O), (N-2620: Et, 4-CON(Me)2-Ph, O, O), (N-2621: Et, 4-iPrOC(=O)-Ph, O, O), (N-2622: Et, 4-nBuOC(=O)-Ph, O, O), (N-2623: Et, 6-Me-pyridine-3-yl, O, O), (N-2624: Et, Quinoline-3-yl, O, O), (N-2625: Et, 4-NH₂-Ph, O, O), (N-2626: Et, 4-N(Ac)H-Ph, O, O), (N-2627: Et, 4-OH-Ph, O, O), (N-2628: Et, 3,4-di(OH)₂-Ph, O, O), (N-2629: Et, 3,4-di(NH₂)-Ph, O, O), (N-2630: Et, 3:4-[N(Ac)H]₂-Ph, O, O), (N-2631: Et, 4-SH-Ph, O, O), (N-2632: Et, 4-SMe-Ph, O, O), (N-2633: Et, 3,4-diBr-Ph, O, O), (N-2634: Et, 4-N(Me)H-Ph, O, O), (N-2635: Et, 4-N(Me)₂-Ph, O, O), (N-2636: Et, 4-N(Me)₃+-Ph, O, O), (N-2637: Et, 4-Et-Ph, O, O), (N-2638: Et, 4-iPr-Ph, O, O), (N-2639: Et, 4-nPr-Ph, O, O), (N-2640: Et, 4-nBu-Ph, O, O), (N-2641: Et, 4-iBu-Ph, O, O), (N-2642: Et, 3,4-diMe-Ph, O, O), (N-2643: Et, 1,3-Benzodioxole-5-yl, O, O), (N-2644: Et, N-Mepyridinium-4-yl, O, O), (N-2645: Et, N-Me-pyridinium-3-yl, O, O), (N-2646: Et, 5-Me-Pyridine-2-yl, O, O), (N-2647: Et, 2-Pyrazinyl, O, O), (N-2648: Et, 3-Pyrrolyl, 0, O), (N-2649: Et, 1-Me-pyrrole-3-yl, O, O), (N-2650: Et, Pyridine N-oxide-4-yl, 0, 0), (N-2651: Et, Pyridine N-oxide-3-yl, 0, 0), (N-2652: Et, 6-OH-pyridine-3-yl, 0, 0), (N-2653: Et, 6-SH-pyridine-3-yl, O, O), (N-2654: Et, 1-Ac-pyrrole-3-yl, O, O), (N-2655: Et, 4-CF₃-Ph, O, O), (N-2656: Et, 4-CN-Ph, O, O), (N-2657: Et, 4-CHO-Ph, O, O), (N-2658: Et, 3-Cl-Ph, O, O), (N-2659: Et, 3-Br-Ph, O, O), (N-2660: Et, 3-F-Ph, O, O), (N-2661: Et, 3-I-Ph, O, O), (N-2662: Et, 4-I-Ph, O, O), (N-2663: Et, 4-OCF₃-Ph, O, O), (N-2664: Et, 3,4-dil-Ph, O, O), (N-2665: Et, Indole-6-yl, O, O), (N-2666: Et, 1-Ac-indole-6-yl, O, O), (N-2667: Et, 1-Me-indole-6-yl, O, O), (N-2668: Et, 4-(1-Imidazolyl)-Ph, O, O), (N-2669: Et, 4-Morphorino-Ph, O, O), (N-2670: Et, 4-(1-Piperazinyl)-Ph, O, O), (N-2671: Et, 2: 5-diMe-thiophene-3-yl, O, O), (N-2672: Et, 2-Furyl, O, O), (N-2673: Et, 5-Me-furan-2-yl, O, O), (N-2674: Et, 5-Me-furan-2-yl, O, O), (N-2675: Et, 2-Thiazolyl, O, O), (N-2676: Et, 1:4-Benzodioxin-6-yl, O, O), (N-2677: Et, Benzo[b]furan-2-yl, O, O), (N-2678: Et, 4-NH₂CH₂-Ph, O, O), (N-2679: Et, 4-N(Me)HCH₂-Ph, O, O), (N-2680: Et, 4-N(Me)₂CH₂-Ph, O, O), (N-2681: Et, 6-Cl-pyridine-3-yl, O, O), (N-2682: Et, 5,6-diCl-pyridine-3-yl, O, O), (N-2683: Et, 5-Cl-pyridine-2-yl, O, O), (N-2684: Et, 4:5-diCl-pyridine-2-yl, O, O), (N-2685: Et, 4-CICH₂-Bn, O, O), (N-2686: Et, Bn, O, O), (N-2687: Et, 4-CI-Bn, O, O), (N-2688: Et, 4-Br-Bn, O, O), (N-2689: Et, 4-F-Bn, O, O), (N-2690: Et, 3,4-diCl-Bn, O, O), (N-2691: Et, 3,4-diBr-Bn, O, O), (N-2692: Et, 3,4-diF-Bn, O, O), (N-2693: Et, 4-Cl-Bz, O, O), (N-2694: Et, 3,4-diCl-Bz, O, O), (N-2695: Et, 4-Br-Bz, O, O), (N-2696: Et, 3,4-diBr-Bz, O, O), (N-2697: Et, 4-F-Bz, O, O), (N-2698: Et, 3,4-diF-Bz, O, O), (N-2699: Et, 4-NO₂-Bn, O, O), (N-2700: Et, 4-CN-Bn, O, O), (N-2701: COOMe, Ph, O, O), (N-2702: COOMe, 4-F-Ph, O, O), (N-2703: COOMe, 4-Br-Ph, O, O), (N-2704: COOMe, 4-Me-Ph, 0, O), (N-2705: COOMe, 4-Ph-Ph, O, O), (N-2706: COOMe, 4-OMe-Ph, O, O), (N-2707: COOMe, 4-tBu-Ph, O, O), (N-2708: COOMe, 4-COOMe-Ph, O, O), (N-2709: COOMe, 4-Pen-Ph, O, O), (N-2710: COOMe, 4-NO₂-Ph, O, O), (N-2711: COOMe, 5-Cl-thiophene-2-yl, O, O), (N-2712: COOMe, 3-Thienyl, O, O), (N-2713: COOMe, 2-Py, O, O), (N-2714: COOMe, 3-Py, O, O), (N-2715: COOMe, 4-Py, O, O), (N-2716: COOMe, 3,4-diF-Ph, O, O), (N-2717: COOMe, 5-Br-thiophene-2-yl, O, O), (N-2718: COOMe, 4-CONH₂-Ph, O, O), (N-2719: COOMe, 4-CON(Me)H-Ph, O, O), (N-2720: COOMe, 4-CON(Me)₂-Ph, O, O), (N-2721: COOMe, 4-iPrOC(=0)-Ph, O, O), (N-2722: COOMe, 4-nBuOC(=0)-Ph, O, O), (N-2723: COOMe, 6-Me-pyridine-3-yl, O, O), (N-2724: COOMe, Quinoline-3-yl, O, O), (N-2725: COOMe, 4-NH₂-Ph, O, O), (N-2726: COOMe, 4-N(Ac)H-Ph, O, O), (N-2727: COOMe, 4-OH-Ph, O, O), (N-2728: COOMe, 3,4-di(OH)₂-Ph, O, O), (N-2729: COOMe, 3,4-di(NH₂) -Ph, O, O), (N-2730: COOMe, 3:4-[N(Ac)H]₂-Ph, O, O), (N-2731: COOMe, 4-SH-Ph, O, O), (N-2732: COOMe, 4-SMe-Ph, O, O), (N-2733: COOMe, 3,4-diBr-Ph, O, O), (N-2734: COOMe, 4-N(Me)H-Ph, O, O), (N-2735: COOMe, 4-N(Me)₂-O), (N-2739: COOMe, 4-nPr-Ph, O, O), (N-2740: COOMe, 4-nBu-Ph, O, O), (N-2741: COOMe, 4-iBu-Ph, O, O), (N-2740: COOMe, 4-nBu-Ph, O, 2742: COOMe, 3,4-diMe-Ph, O, O), (N-2743: COOMe, 1,3-Benzodioxole-5-yl, O, O), (N-2744: COOMe, N-Me-pyridinium-4-yl, O, O), (N-2745: COOMe, N-Me-pyridinium-3-yl, 0, O), (N-2746: COOMe, 5-Me-Pyridine-2-yl, 0, O), (N-2 2747: COOMe, 2-Pyrazinyl, O, O), (N-2748: COOMe, 3-Pyrrolyl, O, O), (N-2749: COOMe, 1-Me-pyrrole-3-yl, O, O), (N-2750: COOMe, Pyridine N-oxide-4-yl, O, O), (N-2751: COOMe, Pyridine N-oxide-3-yl, O, O), (N-2752: COOMe, 6-OH-pyridine-3-yl, O, O), (N-2753: COOMe, 6-SH-pyridine-3-yl, O, O), (N-2754: COOMe, 1-Ac-pyrrole-3-yl, O, O), (N-2755: COOMe, 4-CF₃-Ph, O, O), (N-2756: COOMe, 4-CN-Ph, O, O), (N-2757: COOMe, 4-CHO-Ph, O, O), (N-2758: COOMe, 3-CI-Ph, O, O), (N-2759: COOMe, 3-Br-Ph, O, O), (N-2760: COOMe, 3-F-Ph, O, O), (N-2761: COOMe, 3-I-Ph, O, O), (N-2762: COOMe, 4-I-Ph, O, O), (N-2763: COOMe, 4-OCF₃-Ph, O, O), (N-2764: COOMe, 3,4-dil-Ph, O, O), (N-2765: COOMe, Indole-6-yl, O, O), (N-2766: COOMe, 1-Ac-indole-6-yl, O, O), (N-2767: COOMe, 1-Me-indole-6-yl, O, O), (N-2768: COOMe, 4-(1-Imidazolyl)-Ph, O, O), (N-2769: COOMe, 4-Morphorino-Ph, O, O), (N-2770: COOMe, 4-(1-Piperazinyl)-Ph, O, O), (N-2771: COOMe, 2:5-diMe-thiophene-3-yl, O, O), (N-2772: COOMe, 2-Furyl, O, O), (N-2772: COOMe, 2 2773: COOMe, 5-Me-furan-2-yl, O, O), (N-2774: COOMe, 5-Me-furan-2-yl, O, O), (N-2775: COOMe, 2-Thiazolyl, O, O), (N-2776: COOMe, 1:4-Benzodioxin-6-yl, O, O), (N-2777: COOMe, Benzo[b]furan-2-yl, O, O), (N-2778: COOMe, 4-NH₂CH₂-Ph, O, O), (N-2779: COOMe, 4-N(Me)HCH₂-Ph, O, O), (N-2780: COOMe, 4-N(Me)₂CH₂-Ph, O, O), (N-2781: COOMe, 6-Cl-pyridine-3-yl, 0, O), (N-2782: COOMe, 5,6-diCl-pyridine-3-yl, O, O), (N-2783: COOMe, 5-Cl-pyridine-2-yl, O, O), (N-2784: COOMe, 4:5-diCl-pyridine-2-yl, O, O), (N-2785: COOMe, 4-CICH₂-Bn, O, O), (N-2786: COOMe, Bn, O, O), (N-2787: COOMe, 4-CI-Bn, O, O), (N-2788: COOMe, 4-Br-Bn, O, O), (N-2789: COOMe, 4-F-Bn, O, O), (N-2790: COOMe, 3,4-diCl-Bn, O, O), (N-2791: COOMe, 3,4-diBr-Bn, O, O), (N-2792: COOMe, 3,4-diF-Bn, O,

O), (N-2793: COOMe, 4-Cl-Bz, O, O), (N-2794: COOMe, 3,4-diCl-Bz, O, O), (N-2795: COOMe, 4-Br-Bz, O, O), (N-2796: COOMe, 3,4-diBr-Bz, O, O), (N-2797: COOMe, 4-F-Bz, O, O), (N-2798: COOMe, 3,4-diF-Bz, O, O), (N-2799: COOMe, 4-NO₂-Bn, O, O), (N-2800: COOMe, 4-CN-Bn, O, O), (N-2801: 4-F-Ph, CONH₂, S, S), (N-2802: 4-Br-Ph, CONH₂, S, S), (N-2803: 5-Cl-thiophene-2-yl, CONH₂, S, S), (N-2804: 3,4-diF-Ph, CONH₂, S, S), (N-2805: 5-Br-thiophene-2-yl, CONH₂, S, S), (N-2806: 3,4-diBr-Ph, CONH₂, S, S), (N-2807: 4-CF₃-Ph, CONH₂, S, S), (N-2808: 3-Cl-Ph, CONH₂, S, S), (N-2809: 3-Br-Ph, CONH₂, S, S), (N-2810: 3-F-Ph, CONH₂, S, S), (N-2811: 4-F-Ph, CO₂NHCH₃, S, S), (N-2812: 4-Br-Ph, CO₂NHCH₃, S, S), (N-2813: 5-Cl-thiophene-2-yl, CO₂NHCH₃, S, S), (N-2814: 3,4-diF-Ph, CO₂NHCH₃, S, S), (N-2815: 5-Br-thiophene-2-yl, CO₂NHCH₃, S, S), (N-2816: 3,4-diBr-Ph, CO₂NHCH₃, S, S), (N-2817: $4-CF_3-Ph$, CO_2NHCH_3 , S, S), (N-2818: 3-Cl-Ph, CO_2NHCH_3 , S, S), (N-2819: 3-Br-Ph, CO_2NHCH_3 , S, S), (N-2819: 3-Br-Ph, S), (N-2819: 3-B2820: 3-F-Ph, CO_2NHCH_3 , S, S), (N-2821: 4-F-Ph, $CO_2N(CH_3)_2$, S, S); (N-2822: 4-Br-Ph, $CO_2N(CH_3)_2$, S, S), (N-2820: 4-Br-Ph, $CO_2N(CH_3)_2$, S) 2823: 5-Cl-thiophene-2-yl, $CO_2N(CH_3)_2$, S, S), (N-2824: 3,4-diF-Ph, $CO_2N(CH_3)_2$, S, S), (N-2825: 5-Br-thiophene-2-yl, $CO_2N(CH_3)_2$, S, S), (N-2826: 3,4-diBr-Ph, $CO_2N(CH_3)_2$, S, S), (N-2827: 4-CF₃-Ph, $CO_2N(CH_3)_2$, S, S), (N-2828: 3-Cl-Ph, CO₂N(CH₃)₂, S, S) Ph, CO₂N(CH₃)₂, S, S), (N-2829: 3-Br-Ph, CO₂N(CH₃)₂, S, S), (N-2830: 3-F-Ph, CO₂N(CH₃)₂, S, S), (N-2831: 4-F-Ph, CO_2H , S, S), (N-2832: 4-Br-Ph, CO_2H , S, S), (N-2833: 5-Cl-thiophene-2-yl, CO_2H , S, S), (N-2834: 3,4-diF-Ph, $CO_$ S, S), (N-2835: 5-Br-thiophene-2-yl, CO₂H, S, S), (N-2836: 3,4-diBr-Ph, CO₂H, S, S), (N-2837: 4-CF₃-Ph, CO₂H, S, S), (N-2838: 3-Cl-Ph, CO₂H, S, S), (N-2839: 3-Br-Ph, CO₂H, S, S), (N-2840: 3-F-Ph, CO₂H, S, S), (N-2841: 4-F-Ph, NH₂, S, S), (N-2842: 4-Br-Ph, NH₂; S, S), (N-2843: 5-Cl-thiophene-2-yl, NH₂, S, S), (N-2844: 3,4-diF-Ph, NH₂, S, S), (N-2845: 5-Br-thiophene-2-yl, NH₂, S, S), (N-2846: 3,4-diBr-Ph, NH₂, S, S), (N-2847: 4-CF₃-Ph, NH₂, S, S), (N-2848: 3-Cl-Ph, NH₂, S, S), (N-2849: 3-Br-Ph, NH₂, S, S), (N-2850: 3-F-Ph, NH₂, S, S), (N-2851: 4-F-Ph, CH₂COOMe, S, S), (N-2852: 4-Br-Ph, CH₂COOMe, S, S), (N-2853: 5-Cl-thiophene-2-yl, CH₂COOMe, S, S), (N-2854: 3,4-diF-Ph, CH₂COOMe, S, S), (N-2855: 5-Br-thiophene-2-yl, CH₂COOMe, S, S), (N-2856: 3,4-diBr-Ph, CH₂COOMe, S, S), (N-2857: 4-CF₃-Ph, CH₂COOMe, S, S), (N-2858: 3-Cl-Ph, CH₂COOMe, S, S), (N-2859: 3-Br-Ph, CH₂COOMe, S, S), (N-2859: 3-2860: 3-F-Ph, CH₂COOMe, S, S), (N-2861: 4-F-Ph, CH₂CH₂COOMe, S, S), (N-2862: 4-Br-Ph, CH₂CH₂COOMe, S, S), (N-2863: 5-Cl-thiophene-2-yl, CH₂CH₂COOMe, S, S), (N-2864: 3,4-diF-Ph, CH₂CH₂COOMe, S, S), (N-2865: 5-Brthiophene-2-yl, CH₂CH₂COOMe, S, S), (N-2866: 3,4-diBr-Ph, CH₂COOMe, S, S), (N-2867: 4-CF₃-Ph, $CH_2COOMe, S, S), (N-2868: 3-CI-Ph, CH_2CH_2COOMe, S, S), (N-2869: 3-Br-Ph, CH_2CH_2COOMe, S, S), (N-2870: CH_2CH_2COOMe, S, S), (N-2869: 3-Br-Ph, CH_2CH_2COOMe, S, S), (N-2870: CH_2CH_2COOMe, S, S), (N-2869: 3-Br-Ph, CH_2CH_2COOMe, S, S), (N-2869: CH_2COOMe, S, S), (N-2869: CH_2CO$ 3-F-Ph, CH₂CH₂COOMe, S, S), (N-2871: 4-F-Ph, CH₂COONH₂, S, S), (N-2872: 4-Br-Ph, CH₂COONH₂, S), (N-2872: 4-Br-Ph, CH₂COONH₂, S), (N-2872: 4-Br-Ph, CH 2873: 5-CI-thiophene-2-yl, CH₂COONH₂, S, S), (N-2874: 3,4-diF-Ph, CH₂COONH₂, S, S), (N-2875: 5-Br-thiophene-2-yl, CH_2COONH_2 , S, S), (N-2876: 3,4-diBr-Ph, CH_2COONH_2 , S, S), (N-2877: 4- CF_3 -Ph, CH_2COONH_2 , S, S), (N-2876: 3,4-diBr-Ph, CH_2COONH_2 , S, S), (N-2876: 4- CF_3 -Ph, CH_3 -Ph, $CH_$ 2878: 3-Cl-Ph, CH_2COONH_2 , S, S), (N-2879: 3-Br-Ph, CH_2COONH_2 , S, S), (N-2880: 3-F-Ph, CH_2COONH_2 , S, S), (N-2881: 4-F-Ph, CH₂COONHCH₃, S, S), (N-2882: 4-Br-Ph, CH₂COONHCH₃, S, S), (N-2883: 5-Cl-thiophene-2-yl, CH₂COONHCH₃, S, S), (N-2884: 3,4-diF-Ph, CH₂COONHCH₃, S, S), (N-2885: 5-Br-thiophene-2-yl, CH₂COONHCH₃, S, S), (N-2886: 3,4-diBr-Ph, CH₂COONHCH₃, S, S), (N-2887: 4-CF₃-Ph, CH₂COONHCH₃, S, S), (N-2888: 3-CI-Ph, CH₂COONHCH₃, S, S), (N-2889: 3-Br-Ph, CH₂COONHCH₃, S, S), (N-2890: 3-F-Ph, CH₂COONHCH₃, S, S), (N-2893: 5-CI-thiophene-2-yI, CH₂CH₂CI, S, S), (N-2894: 3,4-diF-Ph, CH₂CH₂CI, S, S), (N-2895: 5-Br-thiophene-2-yI, CH₂CH₂CI, S, S), (N-2896: 3,4-diBr-Ph, CH₂CH₂CI, S, S), (N-2897: 4-CF₃-Ph, CH₂CH₂CI, S, S), (N-2898: 3-CI-Ph, CH₂CH₂CI, S, S), (N-2899: 3-Br-Ph, CH₂CH₂CI, S, S), (N-2900: 3-F-Ph, CH₂CH₂CI, S, S), (N-2901: 4-F-Ph, CONH₂, O, S), (N-2902: 4-Br-Ph, CONH₂, O, S), (N-2903: 5-Cl-thiophene-2-yl, CONH₂, O, S), (N-2904: 3,4-diF-Ph, CONH₂, O, S), (N-2905: 5-Br-thiophene-2-yl, CONH₂, O, S), (N-2906: 3,4-diBr-Ph, CONH₂, O, S), (N-2907: 4-CF₃-Ph, CONH₂, O, S), (N-2908: 3-CI-Ph, CONH₂, O, S), (N-2909: 3-Br-Ph, CONH₂, O, S), (N-2910: 3-F-Ph, CONH₂, O, S), (N-2911: 4-F-Ph, CO₂NHCH₃, O, S), (N-2912: 4-Br-Ph, CO₂NHCH₃, O, S), (N-2913: 5-Cl-thiophene-2-yl, CO₂NHCH₃, O, S), (N-2914: 3,4-diF-Ph, CO2NHCH3, O, S), (N-2915: 5-Br-thiophene-2-yl, CO2NHCH3, O, S), (N-2916: 3,4-diBr-Ph, CO₂NHCH₃, O, S), (N-2917: 4-CF₃-Ph, CO₂NHCH₃, O, S), (N-2918: 3-Cl-Ph, CO₂NHCH₃, O, S), (N-2919: 3-Br-Ph, CO_2NHCH_3 , O, S), (N-2920: 3-F-Ph, CO_2NHCH_3 , O, S), (N-2921: 4-F-Ph, $CO_2N(CH_3)_2$, O, S), (N-2922: 4-Br-Ph, $CO_2N(CH_3)_2$, O, S), (N-2920: 4-Br $(CH_3)_2, \ O, \ S), \ (N-2923: \ 5-Cl-thiophene-2-yl, \ CO_2N(CH_3)_2, \ O, \ S), \ (N-2924: \ 3,4-diF-Ph, \ CO_2N(CH_3)_2, \ O, \ S), \ (N-2925: \ N-2924: \ N-292$ 5-Br-thiophene-2-yl, CO₂N(CH₃)₂, O, S), (N-2926: 3,4-diBr-Ph, CO₂N(CH₃)₂, O, S), (N-2927: 4-CF₃-Ph, CO₂N(CH₃)₂, O, S), (N-2928: 3-Cl-Ph, $CO_2N(CH_3)_2$, O, S), (N-2929: 3-Br-Ph, $CO_2N(CH_3)_2$, O, S), (N-2930: 3-F-Ph, $CO_2N(CH_3)_2$, (N-2930: 3-F-Ph, $CO_2N(CH_3)_2$), (N-2930: 3-F-Ph, $CO_2N(CH_3)_2$, (N-2930: 3-F-Ph, $CO_2N(CH_3)_2$), O, S), (N-2931: 4-F-Ph, CO₂H, O, S), (N-2932: 4-Br-Ph, CO₂H, O, S), (N-2933: 5-Cl-thiophene-2-yl, CO₂H, O, S), (N-2932: 4-Br-Ph, CO₂H, O, S), (N-2933: 5-Cl-thiophene-2-yl, CO₂H, O, S), (N-293 2934: 3,4-diF-Ph, CO₂H, O, S), (N-2935: 5-Br-thiophene-2-yl, CO₂H, O, S), (N-2936: 3,4-diBr-Ph, CO₂H, O, S), (N-2937: 4-CF $_3$ -Ph, CO $_2$ H, O, S), (N-2938: 3-CI-Ph, CO $_2$ H, O, S), (N-2939: 3-Br-Ph, CO $_2$ H, O, S), (N-2940: 3-F-Ph, CO $_2$ H, O, O, S), (N-2941: 4-F-Ph, NH₂, O, S), (N-2942: 4-Br-Ph, NH₂, O, S), (N-2943: 5-Cl-thiophene-2-yl, NH₂, O, S), (N-2944: 3,4-diF-Ph, NH₂, O, S), (N-2945: 5-Br-thiophene-2-yl, NH₂, O, S), (N-296: 3,4-diBr-Ph, NH₂, O, S), (N-2947: 4-CF₃-Ph, NH₂, O, S), (N-2948: 3-Cl-Ph, NH₂, O, S), (N-2949: 3-Br-Ph, NH₂, O, S), (N-2950: 3-F-Ph, NH₂, O, S), (N-2951: 4-F-Ph, CH₂COOMe, O, S), (N-2952: 4-Br-Ph, CH₂COOMe, O, S), (N-2953: 5-Cl-thiophene-2-yl, CH₂COOMe, 0, S), (N-2954: 3,4-diF-Ph, CH₂COOMe, O, S), (N-2955: 5-Br-thiophene-2-yl, CH₂COOMe, O, S), (N-2956: 3,4-diBr-Ph, CH₂COOMe, O, S), (N-2957: 4-CF₃-Ph, CH₂COOMe, O, S), (N-2958: 3-CI-Ph, CH₂COOMe, O, S), (N-2959: 3-Br-Ph, CH₂COOMe, O, S), (N-2960: 3-F-Ph, CH₂COOMe, O, S), (N-2961: 4-F-Ph, CH₂CH₂COOMe, O, S), (N-2962: 4-Br-Ph, CH₂CH₂COOMe, O, S), (N-2963: 5-Cl-thiophene-2-yl, CH₂CH₂COOMe, O, S), (N-2964: 3,4-diF-Ph,

CH₂CH₂COOMe, O, S), (N-2965: 5-Br-thiophene-2-yl, CH₂CH₂COOMe, O, S), (N-2966: 3,4-diBr-Ph, CH₂CH₂COOMe, O, S), (N-2967: 4-CF₃-Ph, CH₂CH₂COOMe, 0, S), (N-2968: 3-Cl-Ph, CH₂CH₂COOMe, O, S), (N-2969: 3-Br-Ph, CH₂COOMe, O, S), (N-2970: 3-F-Ph, CH₂COOMe, O, S), (N-2971: 4-F-Ph, CH₂COONH₂, O, S), (N-2972: 4-Br-Ph, CH₂COONH₂, 0, S), (N-2973: 5-Cl-thiophene-2-yl, CH₂COONH₂, O, S), (N-2974: 3,4-diF-Ph, CH₂COONH₂, O, S), (N-2975: 5-Br-thiophene-2-yl, CH₂COONH₂, O, S), (N-2976: 3,4-diBr-Ph, CH₂COONH₂, O, S), (N-2977: 4-CF₃-Ph, CH₂COONH₂, O, S), (N-2978: 3-CI-Ph, CH₂COONH₂, O, S), (N-2979: 3-Br-Ph, CH₂COONH₂, O, S), (N-2980: 3-F-Ph, CH₂COONH₂, O, S), (N-2981: 4-F-Ph, CH₂COONHCH₃, O, S), (N-2982: 4-Br-Ph, CH₂COONHCH₃, O, S), (N-2983: 5-CI-thiophene-2-yl, CH₂COONHCH₃, O, S), (N-2984: 3,4-diF-Ph, CH₂COONHCH₃, O, S), (N-2985: 5-Br-thiophene-2-yl, CH₂COONHCH₃, O, S), (N-2986: 3,4-diBr-Ph, CH₂COONHCH₃, O, S), (N-2987: 4-CF₃-Ph, CH₂COONHCH₃, O, S), (N-2988: 3-CI-Ph, CH₂COONHCH₃, O, S), (N-2989: 3-Br-Ph, CH₂COONHCH₃, O, S), (N-2990: 3-F-Ph, CH₂COONHCH₃, O, S), (N-2991: 4-F-Ph, CH₂CH₂Cl, O, S), (N-2992: 4-Br-Ph, CH₂CH₂Cl, O, S), (N-2993: 5-CI-thiophene-2-yl, CH₂CH₂Cl, O, S), (N-2994: 3,4-diF-Ph, CH₂CH₂Cl, O, S), (N-2995: 5-Br-thiophene-2-yl, CH₂CH₂CI, O, S), (N-2996: 3,4-diBr-Ph, CH₂CH₂CI, O, S), (N-2997: 4-CF₃-Ph, CH₂CH₂CI, O, S), (N-2998: 3-CI-Ph, CH₂CH₂CI, O, S), (N-2999: 3-Br-Ph, CH₂CH₂CI, O, S), (N-3000: 3-F-Ph, CH₂CH₂CI, O, S), (N-3001: 4-F-Ph, CONH₂, S, O), (N-3002: 4-Br-Ph, CONH₂, S, O), (N-3003: 5-Cl-thiophene-2-yl, CONH₂, S, O), (N-3004: 3,4-diF-Ph, CONH₂, S, O), (N-3005: 5-Br-thiophene-2-yl, CONH₂, S, O), (N-3006: 3,4-diBr-Ph, CONH₂, S, O), (N-3007: 4-CF₃-Ph, CONH₂, S, O), (N-300: 3-CI-Ph, CONH₂, S, O), (N-3009: 3-Br-Ph, CONH₂, S, O), (N-3010: 3-F-Ph, CONH₂, S, O), (N-3011: 4-F-Ph, CO₂NHCH₃, S, O), (N-3012: 4-Br-Ph, CO₂NHCH₃, S, O), (N-3013: 5-Cl-thiophene-2-yl, CO₂NHCH₃, S, O), $(N-3014: 3,4-diF-Ph, CO_2NHCH_3, S, O), (N-3015: 5-Br-thiophene-2-yl, CO_2NHCH_3, S, O), (N-3016: 3,4-diBr-Ph, CO_2NHCH_3, S, O)$ CO₂NHCH₃, S, O), (N-3017: 4-CF₃-Ph, CO₂NHCH₃, S, O), (N-3018: 3-Cl-Ph, CO₂NHCH₃, S, O), (N-3019: 3-Br-Ph, CO_2NHCH_3 , S, O), (N-3020: 3-F-Ph, CO_2NHCH_3 , S, O), (N-3021: 4-F-Ph, $CO_2N(CH_3)_2$, S, O), (N-3022: 4-Br-Ph, CO_2N $(CH_3)_2$, S, O), $(N-3023: 5-Cl-thiophene-2-yl, <math>CO_2N(CH_3)_2$, S, O), $(N-3024: 3,4-diF-Ph, <math>CO_2N(CH_3)_2$, S, O), $(N-3025: 3,4-diF-Ph, CO_2N(CH_3)_2$, S, O) 5-Br-thiophene-2-yl, $CO_2N(CH_3)_2$, S, O), (N-3026: 3,4-diBr-Ph, $CO_2N(CH_3)_2$, S, O), (N-3027: 4- CF_3 -Ph, $CO_2N(CH_3)_2$, S, O), (N-3027: 4- $CF_3N(CH_3)_2$, S, O), (N-3027: 4- $CF_3N(CH_3)_2$, S, O), (N-3027: 4- $CF_3N(CH_3)_2$, S, O), (N-3027: S, O), (N-3028: 3-Cl-Ph, $CO_2N(CH_3)_2$, S, O), (N-3029: 3-Br-Ph, $CO_2N(CH_3)_2$, S, O), (N-3030: 3-F-Ph, $CO_2N(CH_3)_2$, 25 S, O), (N-3031: 4-F-Ph, CO_2H , S, O), (N-3032: 4-Br-Ph, CO_2H , S, O), (N-3033: 5-Cl-thiophene-2-yl, CO_2H , S, O), (N-3031: 4-F-Ph, CO_2H , S, O), (N-3032: 4-Br-Ph, CO_2H , S, O), (N-3033: 5-Cl-thiophene-2-yl, CO_2H , S, O), (N-3033: 5-Cl-thio 3034: 3,4-diF-Ph, CO₂H, S, O), (N-3035: 5-Br-thiophene-2-yl, CO₂H, S, O), (N-3036: 3,4-diBr-Ph, CO₂H, S, O), (N- $3037: 4-CF_3-Ph, CO_2H, S, O), (N-3038: 3-Cl-Ph, CO_2H, S, O), (N-3039: 3-Br-Ph, CO_2H, S, O), (N-3040: 3-F-Ph, CO_2H, S,$ S, O), (N-3041: 4-F-Ph, NH₂, S, O), (N-3042: 4-Br-Ph, NH₂, S, O), (N-3043: 5-Cl-thiophene-2-yl, NH₂, S, O), (N-3044: 3,4-diF-Ph, NH₂, S, O), (N-3045: 5-Br-thiophene-2-yl, NH₂, S, O), (N-3046: 3,4-diBr-Ph, NH₂, S, O), (N-3047: 4-CF₃-Ph, NH₂, S, O), (N-3048: 3-Cl-Ph, NH₂, S, O), (N-3049: 3-Br-Ph, NH₂, S, O), (N-3050: 3-F-Ph, NH₂, S, O), (N-3051: 4-F-Ph, CH₂COOMe, S, O), (N-3052: 4-Br-Ph, CH₂COOMe, S, O), (N-3053: 5-Cl-thiophene-2-yl, CH₂COOMe, S, O), (N-3054: 3,4-diF-Ph, CH₂COOMe, S, O), (N-3055: 5-Br-thiophene-2-yl, CH₂COOMe, S, O), (N-3056: 3,4-diBr-Ph, CH₂COOMe, S, O), (N-3057: 4-CF₃-Ph, CH₂COOMe, S, O), (N-3058: 3-CI-Ph, CH₂COOMe, S, O), (N-3059: 3-Br-Ph, CH₂COOMe, S, O), (N-3060: 3-F-Ph, CH₂COOMe, S, O), (N-3061: 4-F-Ph, CH₂CH₂COOMe, S, O), (N-3062: 4-Br-35 Ph, CH₂CH₂COOMe, S, O), (N-3063: 5-Cl-thiophene-2-yl, CH₂CH₂COOMe, S, O), (N-3064: 3,4-diF-Ph, $\text{CH}_2\text{COOMe}, \text{S}, \text{O}$), (N-3065: 5-Br-thiophene-2-yl, $\text{CH}_2\text{COOMe}, \text{S}, \text{O}$), (N-3066: 3,4-diBr-Ph, $\text{CH}_2\text{CH}_2\text{COOMe}$, S, O), (N-3067: 4-CF₃-Ph, CH_2CH_2COOMe , S, O), (N-3068: 3-Cl-Ph, CH_2CH_2COOMe , S, O), (N-3069: 3-Br-Ph, CH₂CH₂COOMe, S, O), (N-3070: 3-F-Ph, CH₂CH₂COOMe, S, O), (N-3071: 4-F-Ph, CH₂COONH₂, S, O), (N-3072: 4-Br-Ph, CH₂COONH₂, S, O), (N-3073: 5-Cl-thiophene-2-yl, CH₂COONH₂, S, O), (N-3074: 3,4-diF-Ph, CH₂COONH₂, S, O), (N-3075: 5-Br-thiophene-2-yl, CH₂COONH₂, S, O), (N-3076: 3,4-diBr-Ph, CH₂COONH₂, S, O), (N-3077: 4-CF₃-Ph, CH₂COONH₂, S, O), (N-3078: 3-Cl-Ph, CH₂COONH₂, S, O), (N-3079: 3-Br-Ph, CH₂COONH₂, S, O), (N-3080: 3-F-Ph, CH $_2$ COONH $_2$, S, O), (N-3081: 4-F-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$, S, O), (N-3082: 4-Br-Ph, CH $_2$ COONHCH $_3$ COONHCH 3083: 5-Cl-thiophene-2-yl, CH₂COONHCH₃, S, O), (N-3084: 3,4-diF-Ph, CH₂COONHCH₃, S, O), (N-3085: 5-Br-thiophene-2-yl, CH₂COONHCH₃, S, O), (N-3086: 3,4-diBr-Ph, CH₂COONHCH₃, S, O), (N-3087: 4-CF₃-Ph, $CH_2COONHCH_3$, S, O), (N-3088: 3-CI-Ph, $CH_2COONHCH_3$, S, O), (N-3089: 3-Br-Ph, $CH_2COONHCH_3$, S, O), (N-3090: 3-F-Ph, $CH_2COONHCH_3$, S, O), (N-3091: 4-F-Ph, CH_2CH_2CI , S, O), (N-3092: 4-Br-Ph, CH_2CH_2CI , S, O), (N-3090: 3-F-Ph, $CH_2COONHCH_3$), CN-2013 (N-3090: 3-F-Ph, $CH_2COONHCH_3$), CN-3090: 3-F-Ph, $CH_3COONHCH_3$ 3093: 5-Cl-thiophene-2-yl, CH_2CH_2Cl , S, O), (N-3094: 3,4-diF-Ph, CH_2CH_2Cl , S, O), (N-3095: 5-Br-thiophene-2-yl, $\text{CH}_2\text{CH}_2\text{CI}$, S, O), (N-3096: 3,4-diBr-Ph, $\text{CH}_2\text{CH}_2\text{CI}$, S, O), (N-3097: 4- CF_3 -Ph, $\text{CH}_2\text{CH}_2\text{CI}$, S, O), (N-3098: 3-CI-Ph, CH₂CH₂CI, S, O), (N-3099: 3-Br-Ph, CH₂CH₂CI, S, O), (N-3100: 3-F-Ph, CH₂CH₂CI, S, O), (N-3101: 4-F-Ph, CONH₂, O, O), (N-3102: 4-Br-Ph, CONH₂, O, O), (N-3103: 5-Cl-thiophene-2-yl, CONH₂, O, O), (N-3104: 3,4-diF-Ph, CONH₂, O, O), (N-3105: 5-Br-thiophene-2-yl, CONH₂, O, O), (N-3106: 3,4-diBr-Ph, CONH₂, O, O), (N-3107: 4-CF₃-Ph, CONH₂, O, O), (N-3108: 3-Cl-Ph, CONH₂, O, O), (N-3109: 3-Br-Ph, CONH₂, O, O), (N-3110: 3-F-Ph, CONH₂, O, O), (N-3111: 4-F-Ph, CO₂NHCH₃, O, O), (N-3112: 4-Br-Ph, CO₂NHCH₃, O, O), (N-3113: 5-Cl-thiophene-2-yl, CO₂NHCH₃, O, O), (N-3114: 3,4-diF-Ph, CO₂NHCH₃, O, O), (N-3115: 5-Br-thiophene-2-yl, CO₂NHCH₃, O, O), (N-3116: 3,4-diBr-Ph, CO₂NHCH₃, O, O), (N-3117: 4-CF₃-Ph, CO₂NHCH₃, O, O), (N-3118: 3-Cl-Ph, CO₂NHCH₃, O, O), (N-3119: 3-Br-Ph, CO_2NHCH_3 , O, O), (N-3120: 3-F-Ph, CO_2NHCH_3 , O, O), (N-3121: 4-F-Ph, $CO_2N(CH_3)_2$, O, O), (N-3122: 4-Br-Ph, $CO_2N(CH_3)_2$, O, O), (N-3123: 5-Cl-thiophene-2-yl, $CO_2N(CH_3)_2$, O, O), (N-3124: 3,4-diF-Ph, $CO_2N(CH_3)_2$, O, O) 3125: 5-Br-thiophene-2-yl, $CO_2N(CH_3)_2$, O, O), (N-3126: 3,4-diBr-Ph, $CO_2N(CH_3)_2$, O, O), (N-3127: 4- CF_3 -Ph, CO_2N

 $(CH_3)_2$, O, O), $(N-3128: 3-Cl-Ph, CO_2N(CH_3)_2$, O, O), $(N-3129: 3-Br-Ph, CO_2N(CH_3)_2$, O, O), $(N-3130: 3-F-Ph, CO_2N(CH_3)_2$, O, O), $(N-3128: 3-Cl-Ph, CO_2N(CH_3)_2$, O, O), O), (N-312(CH₃)₂, O, O), (N-3131: 4-F-Ph, CO₂H, O, O), (N-3132: 4-Br-Ph, CO₂H, O, O), (N-3133: 5-Cl-thiophene-2-yl, CO₂H, O, O), (N-3134: 3,4-diF-Ph, CO₂H, O, O), (N-3135: 5-Br-thiophene-2-yl, CO₂H, O, O), (N-3136: 3,4-diBr-Ph, CO₂H, O, O), (N-3137: 4-CF₃-Ph, CO₂H, 0, O), (N-3138: 3-Cl-Ph, CO₂H, O, O), (N-3139: 3-Br-Ph, CO₂H, O, O), (N-3140: 3-F-Ph, CO₂H, O, O), (N-3141: 4-F-Ph, NH₂, O, O), (N-3142: 4-Br-Ph, NH₂, O, O), (N-3143: 5-Cl-thiophene-2-yl, NH₂, O, O), (N-3144: 3,4-diF-Ph, NH₂, O, O), (N-3145: 5-Br-thiophene-2-yl, NH₂, O, O), (N-3146: 3,4-diBr-Ph, NH₂, O, O), (N-3147: 4-CF₃-Ph, NH₂, O, O), (N-3148: 3-Cl-Ph, NH₂, O, O), (N-3149: 3-Br-Ph, NH₂, O, O), (N-3150: 3-F-Ph, NH₂, O, O), (N-3151: 4-F-Ph, CH₂COOMe, O, O), (N-3152: 4-Br-Ph, CH₂COOMe, O, O), (N-3153: 5-Cl-thiophene-2-yl, CH₂COOMe, O, O), (N-3154: 3,4-diF-Ph, CH₂COOMe, O, O), (N-3155: 5-Br-thiophene-2-yl, CH₂COOMe, O, O), (N-10 3156: 3,4-diBr-Ph, CH₂COOMe, O, O), (N-3157: 4-CF₃-Ph, CH₂COOMe, O, O), (N-3158: 3-Cl-Ph, CH₂COOMe, O, O), (N-3159: 3-Br-Ph, CH₂COOMe, O, O), (N-3160: 3-F-Ph, CH₂COOMe, O, O), (N-3161: 4-F-Ph, CH₂CH₂COOMe, O, O), (N-3162: 4-Br-Ph, CH₂CH₂COOMe, O, O), (N-3163: 5-Cl-thiophene-2-yl, CH₂CH₂COOMe, O, O), (N-3164: 3,4-diF-Ph, CH₂CH₂COOMe, O, O), (N-3165: 5-Br-thiophene-2-yl, CH₂CH₂COOMe, O, O), (N-3166: 3,4-diBr-Ph, CH₂CH₂COOMe, O, O), (N-3167: 4-CF₃-Ph, CH₂CH₂COOMe, O, O), (N-3168: 3-Cl-Ph, CH₂CH₂COOMe, O, O), (N-3169: 3-Br-Ph, CH₂CH₂COOMe, O, O), (N-3170: 3-F-Ph, CH₂COOMe, O, O), (N-3171: 4-F-Ph, CH₂COONH₂, O, O), (N-3172: 4-Br-Ph, CH₂COONH₂, O, O), (N-3173: 5-Cl-thiophene-2-yl, CH₂COONH₂, O, O), (N-3174: 3,4-diF-Ph, CH₂COONH₂, O, O), (N-3175: 5-Br-thiophene-2-yl, CH₂COONH₂, O, O), (N-3176: 3,4-diBr-Ph, CH₂COONH₂, O, O), $(N-3177: 4-CF_3-Ph, CH_2COONH_2, O, O), (N-3178: 3-Cl-Ph, CH_2COONH_2, O, O), (N-3179: 3-Br-Ph, CH_2COONH_2, O, O)$ O), (N-3180: 3-F-Ph, CH_2COONH_2 , O, O), (N-3181: 4-F-Ph, $CH_2COONHCH_3$, O, O), (N-3182: 4-Br-Ph, CH₂COONHCH₃, O, O), (N-3183: 5-Cl-thiophene-2-yl, CH₂COONHCH₃, O, O), (N-3184: 3,4-diF-Ph, CH₂COONHCH₃, O, O), (N-3185: 5-Br-thiophene-2-yl, $CH_2COONHCH_3$, O, O), (N-3186: 3,4-diBr-Ph, $CH_2COONHCH_3$, O, O), (N-3187: $4-CF_3-Ph$, $CH_2COONHCH_3$, O, O), (N-3188: 3-Cl-Ph, $CH_2COONHCH_3$, O, O), (N-3189: 3-Br-Ph, $CH_2COONHCH_3$, O), (N-3189: 3-Br-Ph, $CH_2COONHCH_3$, O), (N-3189: 3-Br-Ph, $CH_2COONHCH_3$, (N-3189: 3-Br-Ph), (N-318 O, O), (N-3190: 3-F-Ph, CH₂COONHCH₃, O, O), (N-3192: 4-Br-Ph, CH₂CH₂Cl, O, O), (N-3193: 5-Cl-thiophene-2-yl, CH_2CH_2CI , O, O), (N-3194: 3,4-diF-Ph, CH_2CH_2CI , O, O), (N-3195: 5-Br-thiophene-2-yI, CH_2CH_2CI , O, O), (N-3196: 3,4-diBr-Ph, CH_2CH_2CI , O, O), (N-3197: 4- CF_3 -Ph, CH_2CH_2CI , O, O), (N-3198: 3-CI-Ph, CH_2CH_2CI , O, O), (N-3199: 3-Br-Ph, CH₂CH₂Cl, O, O), (N-3200: 3-F-Ph, CH₂CH₂Cl, O, O), (N-3301: CONH₂, 4-F-Ph, S, S), (N-3302: CONH₂, 4-Br-Ph, S, S), (N-3303: CONH₂, 5-Cl-thiophene-2-yl, S, S), (N-3304: CONH₂, 3,4-diF-Ph, S, S), (N-3305: CONH₂, $5\text{-Br-thiophene-2-yl, S, S), (N-3306: CONH$_2$, 3,4-diBr-Ph, S, S), (N-3307: CONH$_2$, 4-CF$_3-Ph, S, S), (N-3308: CONH$_3$, 4-CF$_3-Ph, S, S),$ 3-Cl-Ph, S, S), (N-3309: CONH₂, 3-Br-Ph, S, S), (N-3310: CONH₂, 3-F-Ph, S, S), (N-3311: CO₂NHCH₃, 4-P-Ph, S, S), (N-3312: CO₂NHCH₃, 4-Br-Ph, S, S), (N-3313: CO₂NHCH₃, 5-Cl-thiophene-2-yl, S, S), (N-3314: CO₂NHCH₃, 3,4-diF-Ph, S, S), (N-3315: CO_2 NHCH₃, 5-Br-thiophene-2-yl, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3317: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3317: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3317: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3317: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3317: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3317: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3317: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3317: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3318: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3318: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3316: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3318: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3818: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3818: CO_2 NHCH₃, 3,4-diBr-Ph, S, S), (N-3818: CO_2 NHCH₃, 3,4-diBr-Ph, S CO₂NHCH₃, 4-CF₃-Ph, S, S), (N-3318: CO₂NHCH₃, 3-Cl-Ph, S, S), (N-3319: CO₂NHCH₃, 3-Br-Ph, S, S), (N-3320: CO₂NHCH₃, 3-F-Ph, S, S), (N-3321: CO₂N(CH₃)₂, 4-F-Ph, S, S), (N-3322: CO₂N(CH₃)₂, 4-Br-Ph, S, S), (N-3323: CO₂N(CH₃)₂, 5-Cl-thiophene-2-yl, S, S), (N-3324: CO₂N(CH₃)₂, 3,4-diF-Ph, S, S), (N-3325: CO₂N(CH₃)₂, 5-Br-thiophene-2-yl, S, S), (N-3326: CO₂N(CH₃)₂, 3,4-diBr-Ph, S, S), (N-3327: CO₂N(CH₃)₂, 4-CF₃-Ph, S, S), (N-3328: CO₂N $(CH_3)_2$, 3-Cl-Ph, S, S), $(N-3329: CO_2N(CH_3)_2$, 3-Br-Ph, S, S), $(N-3330: CO_2N(CH_3)_2$, 3-F-Ph, S, S), $(N-3331: CO_2H_1)_2$ 4-F-Ph, S, S), (N-3332: CO₂H, 4-Br-Ph, S, S), (N-3333: CO₂H, 5-Cl-thiophene-2-yl, S, S), (N-3334: CO₂H, 3,4-diF-Ph, S, S), (N-3335: CO₂H, 5-Br-thiophene-2-yl, S, S), (N-3336: CO₂H, 3,4-diBr-Ph, S, S), (N-3337: CO₂H, 4-CF₃-Ph, S, S), (N-3338: CO₂H, 3-Cl-Ph, S, S), (N-3339: CO₂H, 3-Br-Ph, S, S), (N-3340: CO₂H, 3-F-Ph, S, S), (N-3341: NH₂, 4-F-Ph, S, S), (N-3342: NH₂, 4-Br-Ph, S, S), (N-3343: NH₂, 5-Cl-thiophene-2-yl, S, S), (N-3344: NH₂, 3,4-diF-Ph, S, S), (N-3345: NH₂, 5-Br-thiophene-2-yl, S, S), (N-3346: NH₂, 3,4-diBr-Ph, S, S), (N-3347: NH₂, 4-CF₃-Ph, S, S), (N-3348: NH₂, 3-Cl-Ph, S, S), (N-3349: NH₂, 3-Br-Ph, S, S), (N-3350: NH₂, 3-F-Ph, S, S), (N-3351: CH₂COOMe, 4-F-Ph, S, S), (N-3352: CH₂COOMe, 4-Br-Ph, S, S), (N-3353: CH₂COOMe, 5-Cl-thiophene-2-yl, S, S), (N-3354: CH₂COOMe, 3,4-diF-Ph, S, S), (N-3355: CH₂COOMe, 5-Br-thiophene-2-yl, S, S), (N-3356: CH₂COOMe, 3,4-diBr-Ph, S, S), (N-3357: CH₂COOMe, 4-CF₃-Ph, S, S), (N-3358: CH₂COOMe, 3-Cl-Ph, S, S), (N-3359: CH₂COOMe, 3-Br-Ph, S, S), (N-3360: CH₂COOMe, 3-F-Ph, S, S), (N-3361: CH₂CH₂COOMe, 4-F-Ph, S, S), (N-3362: CH₂CH₂COOMe, 4-Br-Ph, S, S), (N-3363: CH₂CH₂COOMe, 5-Cl-thiophene-2-yl, S, S), (N-3364: CH₂CH₂COOMe, 3,4-diF-Ph, S, S), (N-3365: CH₂CH₂COOMe, 5-Br-thiophene-2-yl, S, S), (N-3366: CH₂CH₂COOMe, 3,4-diBr-Ph, S, S), (N-3367: CH₂CH₂COOMe, $4-CF_3-Ph$, S, S), (N-3368: CH_2CH_2COOMe , 3-CI-Ph, S, S), (N-3369: CH_2CH_2COOMe , 3-Br-Ph, S, S), (N-3370: CH₂CH₂COOMe, 3-F-Ph, S, S), (N-3371: CH₂COONH₂, 4-F-Ph, S, S), (N-3372: CH₂COONH₂, 4-Br-Ph, S, S), (N-3373: CH₂COONH₂, 5-Cl-thiophene-2-yl, S, S), (N-3374: CH₂COONH₂, 3,4-diF-Ph, S, S), (N-3375: CH₂COONH₂, 5-Br-thiophene-2-yl, S, S), (N-3376: CH_2COONH_2 , 3,4-diBr-Ph, S, S), (N-3377: CH_2COONH_2 , 4- CF_3 -Ph, S, S), (N-3378: CH₂COONH₂, 3-Cl-Ph, S, S), (N-3379: CH₂COONH₂, 3-Br-Ph, S, S), (N-3380: CH₂COONH₂, 3-F-Ph, S, S), (N-3381: CH₂COONHCH₃, 4-F-Ph, S, S), (N-3382: CH₂COONHCH₃, 4-Br-Ph, S, S), (N-3383: CH₂COONHCH₃, 5-CIthiophene-2-yl, S, S), (N-3384: CH₂COONHCH₃, 3,4-diF-Ph, S, S), (N-3385: CH₂COONHCH₃, 5-Br-thiophene-2-yl, S, S), (N-3386: CH₂COONHCH₃, 3,4-diBr-Ph, S, S), (N-3387: CH₂COONHCH₃, 4-CF₃-Ph, S, S), (N-3388: $CH_2COONHCH_3$, 3-Cl-Ph, S, S), (N-3389: $CH_2COONHCH_3$, 3-Br-Ph, S, S), (N-3390: $CH_2COONHCH_3$, 3-F-Ph, S, S), (N-3391: CH₂CH₂CI, 4-F-Ph, S, S), (N-3392: CH₂CH₂CI, 4-Br-Ph, S, S), (N-3393: CH₂CH₂CI, 5-CI-thiophene-2-yI, S,

S), (N-3394: CH₂CH₂CI, 3,4-diF-Ph, S, S), (N-3395: CH₂CH₂CI, 5-Br-thiophene-2-yl, S, S), (N-3396: CH₂CH₂CI, 3,4-di-Br-Ph, S, S), (N-3397: CH₂CH₂Cl, 4-CF₃-Ph, S, S), (N-3398: CH₂CH₂Cl, 3-Cl-Ph, S, S), (N-3399: CH₂CH₂Cl, 3-Br-Ph, S, S), (N-3400: CH₂CH₂Cl, 3-F-Ph, S, S), (N-3401: CONH₂, 4-F-Ph, S, O), (N-3402: CONH₂, 4-Br-Ph, S, O), (N-3403: CONH₂, 5-Cl-thiophene-2-yl, S, O), (N-3404: CONH₂, 3,4-diF-Ph, S, O), (N-3405: CONH₂, 5-Br-thiophene-2-yl, S, O), (N-3406: CONH₂, 3,4-diBr-Ph, S, O), (N-3407: CONH₂, 4-CF₃-Ph, S, O), (N-3408: CONH₂, 3-Cl-Ph, S, O), (N-3409: CONH₂, 3-Br-Ph, S, O), (N-3410: CONH₂, 3-F-Ph, S, O), (N-3411: CO₂NHCH₃, 4-F-Ph, S, O), (N-3412: CO₂NHCH₃, 4-Br-Ph, S, O), (N-3413: CO₂NHCH₃, 5-Cl-thiophene-2-yl, S, O), (N-3414: CO₂NHCH₃, 3,4-diF-Ph, S, O), (N-3415: CO₂NHCH₃, 5-Br-thiophene-2-yl, S, O), (N-3416: CO₂NHCH₃, 3,4-diBr-Ph; S, O), (N-3417: CO₂NHCH₃, 4-CF $_3$ -Ph, S, O), (N-3418: CO $_2$ NHCH $_3$, 3-CI-Ph, S, O), (N-3419: CO $_2$ NHCH $_3$, 3-Br-Ph, S, O), (N-3420: CO $_2$ NHCH $_3$, 3-F-Ph, S, O), (N-3421: $CO_2N(CH_3)_2$, 4-F-Ph, S, O), (N-3422: $CO_2N(CH_3)_2$, 4-Br-Ph, S, O), (N-3423: $CO_2N(CH_3)_2$, 5-Cl-thiophene-2-yl, S, O), (N-3424: $CO_2N(CH_3)_2$, 3,4-diF-Ph, S, O), (N-3425: $CO_2N(CH_3)_2$, 5-Br-thiophene-2-yl, S, O), $(N-3426: CO_2N(CH_3)_2, 3,4-diBr-Ph, S, O)$, $(N-3427: CO_2N(CH_3)_2, 4-CF_3-Ph, S, O)$, $(N-3428: CO_2N(CH_3)_2, 3-Cl-Ph, CO_2N(CH_3)_2, 3-Cl-P$ Ph, S, O), (N-3429: $CO_2N(CH_3)_2$, 3-Br-Ph, S, O), (N-3430: $CO_2N(CH_3)_2$, 3-F-Ph, S, O), (N-3431: CO_2H , 4-F-Ph, S, O), (N-3432: CO₂H, 4-Br-Ph, S, O), (N-3433: CO₂H, 5-Cl-thiophene-2-yl, S, O), (N-3434: CO₂H, 3,4-diF-Ph, S, O), (N-3435: CO₂H, 5-Br-thiophene-2-yl, S, O), (N-3436: CO₂H, 3,4-diBr-Ph, S, O), (N-3437: CO₂H, 4-CF₃-Ph, S, O), (N-3438: CO_2H , 3-Cl-Ph, S, O), (N-3439: CO_2H , 3-Br-Ph, S, O), (N-3440: CO_2H , 3-F-Ph, S, O), (N-3441: NH_2 , 4-F-Ph, S, O), (N-3442: NH₂, 4-Br-Ph, S, O), (N-3443: NH₂, 5-Cl-thiophene-2-yl, S, O), (N-3444: NH₂, 3,4-diF-Ph, S, O), (N-3445: NH₂, 5-Br-thiophene-2-yl, S, O), (N-3446: NH₂, 3,4-diBr-Ph, S, O), (N-3447: NH₂, 4-CF₃-Ph, S, O), (N-3448: NH₂, 3-Cl-Ph, S, O), (N-3449: NH₂, 3-Br-Ph, S, O), (N-3450: NH₂, 3-F-Ph, S, O), (N-3451: CH₂COOMe, 4-F-Ph, S, O), (N-3452: CH₂COOMe, 4-Br-Ph, S, O), (N-3453: CH₂COOMe, 5-Cl-thiophene-2-yl, S, O), (N-3454: CH₂COOMe, 3,4-diF-Ph, S, O), (N-3455: CH₂COOMe, 5-Br-thiophene-2-yl, S, O), (N-3456: CH₂COOMe, 3,4-diBr-Ph, S, O), (N-3457: CH₂COOMe, 4-CF₃-Ph, S, O), (N-3458: CH₂COOMe, 3-CI-Ph, S, O), (N-3459: CH₂COOMe, 3-Br-Ph, S, O), (N-3460: CH₂COOMe, 3-F-Ph, S, O), (N-3461: CH₂CH₂COOMe, 4-F-Ph, S, O), (N-3462: CH₂CH₂COOMe, 4-Br-Ph, S, O), (N-3463: CH₂CH₂COOMe, 5-Cl-thiophene-2-yl, S, O), (N-3464: CH₂CH₂COOMe, 3,4-diF-Ph, S, O), (N-3465: CH₂CH₂COOMe, 5-Br-thiophene-2-yl, S, O), (N-3466: CH₂CH₂COOMe, 3,4-diBr-Ph, S, O), (N-3467: CH₂CH₂COOMe, $4-CF_3-Ph$, S, O), (N-3468: CH_2CH_2COOMe , 3-Cl-Ph, S, O), (N-3469: CH_2CH_2COOMe , 3-Br-Ph, S, O), (N-3470: CH₂CH₂COOMe, 3-F-Ph, S, O), (N-3471: CH₂COONH₂, 4-F-Ph, S, O), (N-3472: CH₂COONH₂, 4-Br-Ph, S, O), (N-3473: CH₂COONH₂, 5-Cl-thiophene-2-yl, S, O), (N-3474: CH₂COONH₂, 3,4-diF-Ph, S, O), (N-3475: CH₂COONH₂, 5-Br-thiophene-2-yl, S, O), (N-3476: CH_2COONH_2 , 3,4-diBr-Ph, S, O), (N-3477: CH_2COONH_2 , 4- CF_3 -Ph, S, O), (N-3478: CH_2COONH_2 , 3-CI-Ph, S, O), (N-3479: CH_2COONH_2 , 3-Br-Ph, S, O), (N-3480: CH_2COONH_2 , 3-F-Ph, S, O), (N-3480: CH_2COONH_2), CH_2COONH_2 , $(N-3481: CH_2COONHCH_3, 4-F-Ph, S, O), (N-3482: CH_2COONHCH_3, 4-Br-Ph, S, O), (N-3483: CH_2COONHCH_3, 5-Cl-Ph, S, O)$ thiophene-2-yl, S, O), (N-3484: $CH_2COONHCH_3$, 3,4-diF-Ph, S, O), (N-3485: $CH_2COONHCH_3$, 5-Br-thiophene-2-yl, S, O), (N-3486: $CH_2COONHCH_3$, 3,4-diBr-Ph, S, O), (N-3487: $CH_2COONHCH_3$, 4- CF_3 -Ph, S, O), (N-3488: $CH_2COONHCH_3$, 3-CI-Ph, S, O), (N-3489: $CH_2COONHCH_3$, 3-Br-Ph, S, O), (N-3490: $CH_2COONHCH_3$, 3-F-Ph, S, O), (N-3491: CH₂CH₂CI, 4-F-Ph, S, O), (N-3492: CH₂CH₂CI, 4-Br-Ph, S, O), (N-3493: CH₂CH₂CI, 5-CI-thiophene-2-yI, S, O), (N-3494: CH₂CH₂Cl, 3,4-diF-Ph, S, O), (N-3495: CH₂CH₂Cl, 5-Br-thiophene-2-yl, S, O), (N-3496: CH₂CH₂Cl, 3,4-diBr-Ph, S, O), (N-347: CH_2CH_2CI , 4- CF_3 -Ph, S, O), (N-3498: CH_2CH_2CI , 3-CI-Ph, S, O), (N-3499: CH_2CH_2CI , 3-Br-Ph, S, O), (N-3500: CH₂CH₂Cl, 3-F-Ph, S, O), (N-3501: CONH₂, 4-F-Ph, O, S), (N-3502: CONH₂, 4-Br-Ph, O, S), (N-3503: CONH₂, 5-Cl-thiophene-2-yl, O, S), (N-3504: CONH₂, 3,4-diF-Ph, O, S), (N-3505: CONH₂, 5-Br-thiophene-2-yl, O, S), (N-3506: $CONH_2$, 3,4-diBr-Ph, O, S), (N-3507: $CONH_2$, 4- CF_3 -Ph, O, S), (N-3508: $CONH_2$, 3-Cl-Ph, O, S), (N-3508: $CONH_2$, 3-Cl-Ph, O, S), (N-3509: CONH₂, 3-Br-Ph, O, S), (N-3510: CONH₂, 3-F-Ph, O, S), (N-3511: CO₂NHCH₃, 4-F-Ph, O, S), (N-3512: CO₂NHCH₃, 4-Br-Ph, O, S), (N-3513: CO₂NHCH₃, 5-Cl-thiophene-2-yl, O, S), (N-3514: CO₂NHCH₃, 3,4-diF-Ph, O, S), (N-3515: CO₂NHCH₃, 5-Br-thiophene-2-yl, O, S), (N-3516: CO₂NHCH₃, 3,4-diBr-Ph, O, S), (N-3517: CO₂NHCH₃, 4-CF $_3$ -Ph, O, S), (N-3518: CO $_2$ NHCH $_3$, 3-CI-Ph, O, S), (N-3519: CO $_2$ NHCH $_3$, 3-Br-Ph, O, S), (N-3520: CO $_2$ NHCH $_3$, 3-F-Ph, O, S), (N-3521: CO₂N(CH₃)₂, 4-F-Ph, O, S), (N-3522: CO₂N(CH₃)₂, 4-Br-Ph, O, S), (N-3523: CO₂N(CH₃)₂, 5-Cl-thiophene-2-yl, O, S), (N-3524: $CO_2N(CH_3)_2$, 3,4-diF-Ph, O, S), (N-3525: $CO_2N(CH_3)_2$, 5-Br-thiophene-2-yl, O, S), (N-3526: CO₂N(CH₃)₂, 3,4-diBr-Ph, O, S), (N-3527: CO₂N(CH₃)₂, 4-CF₃-Ph, O, S), (N-3528: CO₂N(CH₃)₂, 3-CI-Ph, O, S), (N-3529: $CO_2N(CH_3)_2$, 3-Br-Ph, O, S), (N-3530: $CO_2N(CH_3)_2$, 3-F-Ph, O, S), (N-3531: CO_2H , 4-F-Ph, O, S), (N-3532: CO₂H, 4-Br-Ph, O, S), (N-353: CO₂H, 5-Cl-thiophene-2-yl, O, S), (N-3534: CO₂H, 3,4-diF-Ph, O, S), (N-3535: CO₂H, 5-Br-thiophene-2-yl, O, S), (N-3536: CO₂H, 3,4-diBr-Ph, O, S), (N-3537: CO₂H, 4-CF₃-Ph, O, S), (N-3538: CO_2H , 3-Cl-Ph, O, S), (N-3539: CO_2H , 3-Br-Ph, O, S), (N-3540: CO_2H , 3-F-Ph, O, S), (N-3541: NH_2 , 4-F-Ph, O, S) O, S), (N-3542: NH₂, 4-Br-Ph, O, S), (N-3543: NH₂, 5-Cl-thiophene-2-yl, O, S), (N-3544: NH₂, 3,4-diF-Ph, O, S), (N-3545: NH₂, 5-Br-thiophene-2-yl, O, S), (N-3546: NH₂, 3,4-diBr-Ph, O, S), (N-3547: NH₂, 4-CF₃-Ph, O, S), (N-3548: NH₂, 3-Cl-Ph, O, S), (N-3549: NH₂, 3-Br-Ph, O, S), (N-3550: NH₂, 3-F-Ph, O, S), N35-51: CH₂COOMe, 4-F-Ph, O, S), (N-3552: CH₂COOMe, 4-Br-Ph, O, S), (N-3553: CH₂COOMe, 5-Cl-thiophene-2-yl, O, S), (N-3554: CH₂COOMe, 3,4-diF-Ph, O, S), (N-355: CH₂COOMe, 5-Br-thiophene-2-yl, O, S), (N-3556: CH₂COOMe, 3,4-diBr-Ph, O, S), (N-3557: CH₂COOMe, 4-CF₃-Ph, O, S), (N-3558: CH₂COOMe, 3-Cl-Ph, O, S), (N-3559: CH₂COOMe, 3-Br-Ph, O, S), (N-3560: CH₂COOMe, 3-F-Ph, O, S), (N-3561: CH₂CH₂COOMe, 4-F-Ph, O, S), (N-3562: CH₂CH₂COOMe, 4-Br-Ph, O, S), (N-

3563: CH₂CH₂COOMe, 5-Cl-thiophene-2-yl, O, S), (N-3564: CH₂CH₂COOMe, 3,4-diF-Ph, O, S), (N-3565: CH₂CH₂COOMe, 5-Br-thiophene-2-yl, O, S), (N-3566: CH₂CH₂COOMe, 3,4-diBr-Ph, O, S), (N-3567: CH₂CH₂COOMe, 4-CF₃-Ph, O, S), (N-3568: CH₂CH₂COOMe, 3-CI-Ph, O, S), (N-3569: CH₂CH₂COOMe, 3-Br-Ph, O, S), (N-3570: CH₂COOMe, 3-F-Ph, O, S), (N-3571: CH₂COONH₂, 4-F-Ph, O, S), (N-3572: CH₂COONH₂, 4-Br-Ph, O, S), (N-3573: CH₂COONH₂, 5-Cl-thiophene-2-yl, O, S), (N-3574: CH₂COONH₂, 3,4-diF-Ph; O, S), (N-3575: CH₂COONH₂, 5-Br-thiophene-2-yl, O, S), (N-3576: CH₂COONH₂, 3,4-diBr-Ph, O, S), (N-3577: CH₂COONH₂, 4-CF₃-Ph, O, S), (N-3578: CH₂COONH₂, 3-Cl-Ph, O, S), (N-3579: CH₂COONH₂, 3-Br-Ph, O, S), (N-3580: CH₂COONH₂, 3-F-Ph, O, S), (N-3581: CH₂COONHCH₃, 4-F-Ph, O, S), (N-3582: CH₂COONHCH₃, 4-Br-Ph, O, S), (N-3583: CH₂COONHCH₃, 5-CIthiophene-2-yl, O, S), (N-3584: CH₂COONHCH₃, 3,4-diF-Ph, O, S), (N-3585: CH₂COONHCH₃, 5-Br-thiophene-2-yl, 10 O, S), (N-3586: CH₂COONHCH₃, 3,4-diBr-Ph, O, S), (N-3587: CH₂COONHCH₃, 4-CF₃-Ph, O, S), (N-3588: CH₂COONHCH₃, 3-CI-Ph, O, S), (N-3589: CH₂COONHCH₃, 3-Br-Ph, 0, S), (N-3590: CH₂COONHCH₃, 3-F-Ph, O, S), (N-3591: CH₂CH₂CI, 4-F-Ph, O, S), (N-3592: CH₂CH₂CI, 4-Br-Ph, O, S), (N-3593: CH₂CH₂CI, 5-CI-thiophene-2-yI, O, S), (N-3594: CH₂CH₂CI, 3,4-diF-Ph, O, S), (N-3595: CH₂CH₂CI, 5-Br-thiophene-2-yI, O, S), (N-356: CH₂CH₂CI, 3,4-di-Br-Ph, O, S), (N-3597: CH₂CH₂Cl, 4-CF₃-Ph, O, S), (N-3598: CH₂CH₂Cl, 3-Cl-Ph, O, S), (N-3599: CH₂CH₂Cl, 3-Br-Ph, O, S), (N-3600: CH₂CH₂Cl, 3-F-Ph, O, S), (N-3601: CONH₂, 4-F-Ph, O, O), (N-3602: CONH₂, 4-Br-Ph, 3603: CONH₂, 5-Cl-thiophene-2-yl, O, O), (N-3604: CONH₂, 3,4-diF-Ph, O, O), (N-3605: CONH₂, 5-Br-thiophene-2-yl, O, O), (N-3606: CONH₂, 3,4-diBr-Ph, O, O), (N-3607: CONH₂, 4-CF₃-Ph, O, O), (N-3608: CONH₂, 3-Cl-Ph, O, O), (N-3609: CONH₂, 3-Br-Ph, O, O), (N-3610: CONH₂, 3-F-Ph, O, O), (N-3611: CO₂NHCH₃, 4-F-Ph, O, O), (N-3612: CO₂NHCH₃, 4-Br-Ph, O, O), (N-3613: CO₂NHCH₃, 5-Cl-thiophene-2-yl, O, O), (N-3614: CO₂NHCH₃, 3,4-diF-Ph, O, O), (N-3615: CO₂NHCH₃, 5-Br-thiophene-2-yl, O, O), (N-3616: CO₂NHCH₃, 3,4-diBr-Ph, O, O), (N-3617: CO₂NHCH₃, 4-CF₃-Ph, O, O), (N-3618: CO₂NHCH₃, 3-CI-Ph, O, O), (N-3619: CO₂NHCH₃, 3-Br-Ph, O, O), (N-3620: CO₂NHCH₃, 3-F-Ph, O, O), (N-3621: $CO_2N(CH_3)_2$, 4-F-Ph, O, O), (N-3622: $CO_2N(CH_3)_2$, 4-Br-Ph, O, O), (N-3623: $CO_2N(CH_3)_2$, 5-Cl-thiophene-2-yl, O, O), (N-3624: CO₂N(CH₃)₂, 3,4-diF-Ph, O, O), (N-3625: CO₂N(CH₃)₂, 5-Br-thiophene-2-yl, O, O), (N-3626: CO₂N(CH₃)₂, 3,4-diBr-Ph, O, O), (N-3627: CO₂N(CH₃)₂, 4-CF₃-Ph, O, O), (N-3628: CO₂N(CH₃)₂, 3-CI-Ph, O, O), (N-3629: CO₂N(CH₃)₂, 3-Br-Ph, O, O), (N-3630: CO₂N(CH₃)₂, 3-F-Ph, O, O), (N-3631: CO₂H, 4-F-Ph, O, O) O), (N-3632: CO₂H, 4-Br-Ph, O, O), (N-3633: CO₂H, 5-Cl-thiophene-2-yl, O, O), (N-3634: CO₂H, 3,4-diF-Ph, O, O), (N-3635: CO₂H, 5-Br-thiophene-2-yl, O, O), (N-3636: CO₂H, 3,4-diBr-Ph, O, O), (N-3637: CO₂H, 4-CF₃-Ph, O, O), (N-3638: CO₂H, 3-Cl-Ph, O, O), (N-3639: CO₂H, 3-Br-Ph, O, O), (N-3640: CO₂H, 3-F-Ph, O, O), (N-3641: NH₂, 4-F-Ph, O, O), (N-3642: NH₂, 4-Br-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3642: NH₂, 4-Br-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, 3,4-diF-Ph, O, O), (N-3643: NH₂, 5-Cl-thiophene-2-yl, O, O), (N-3644: NH₂, O, O), (N-3644: NH₂, O, O), (N-3644: NH₂, O, O), 3645: NH₂, 5-Br-thiophene-2-yl, O, O), (N-3646: NH₂, 3,4-diBr-Ph, O, O), (N-3647: NH₂, 4-CF₃-Ph, O, O), (N-3648: NH₂, 3-Cl-Ph, O, O), (N-3649: NH₂, 3-Br-Ph, O, O), (N-3650: NH₂, 3-F-Ph, O, O), (N-3651: CH₂COOMe, 4-F-Ph, O, O) O), (N-3652: CH₂COOMe, 4-Br-Ph, O, O), (N-3653: CH₂COOMe, 5-Cl-thiophene-2-yl, O, O), (N-3654: CH₂COOMe, 3,4-diF-Ph, O, O), (N-3655: CH₂COOMe, 5-Br-thiophene-2-yl, O, O), (N-3656: CH₂COOMe, 3,4-diBr-Ph, O, O), (N-3657: CH₂COOMe, 4-CF₃-Ph, O, O), (N-3658: CH₂COOMe, 3-CI-Ph, O, O), (N-3659: CH₂COOMe, 3-Br-Ph, O, O), (N-3660: CH₂COOMe, 3-F-Ph, O, O), (N-3661: CH₂CH₂COOMe, 4-F-Ph, O, O), (N-3662: CH₂CH₂COOMe, 4-Br-Ph, O, O), (N-3663: CH₂CH₂COOMe, 5-Cl-thiophene-2-yl, O, O), (N-3664: CH₂CH₂COOMe, 3,4-diF-Ph, O, O), (N-3665: CH₂CH₂COOMe, 5-Br-thiophene-2-yl, O, O), (N-3666: CH₂CH₂COOMe, 3,4-diBr-Ph, O, O), (N-3667: CH₂CH₂COOMe, 4-CF₃-Ph, O, O), (N-3668: CH₂CH₂COOMe, 3-CI-Ph, O, O), (N-3669: CH₂CH₂COOMe, 3-Br-Ph, O, O), O), (N-3670: CH₂COOMe, 3-F-Ph, O, O), (N-3671: CH₂COONH₂, 4-F-Ph, O, O), (N-3672: CH₂COONH₂, 4-Br-Ph, O, O), (N-3673: CH₂COONH₂, 5-Cl-thiophene-2-yl, O, O), (N-3674: CH₂COONH₂, 3,4-diF-Ph, O, O), (N-3675: CH₂COONH₂, 5-Br-thiophene-2-yl, O, O), (N-3676: CH₂COONH₂, 3,4-diBr-Ph, O, O), (N-3677: CH₂COONH₂, 4-CF₃-Ph, O, O), (N-3678: CH₂COONH₂, 3-Cl-Ph, O, O), (N-3679: CH₂COONH₂, 3-Br-Ph, O, O), (N-3680: CH₂COONH₂, 3-F-Ph, O, O), (N-3681: $CH_2COONHCH_3$, 4-F-Ph, O, O), (N-3682: $CH_2COONHCH_3$, 4-Br-Ph, O, O), (N-368 $\overline{3}$: $CH_{2}COONHCH_{3}$, 5-Cl-thiophene-2-yl, O, O), (N-3684: $CH_{2}COONHCH_{3}$, 3,4-diF-Ph, O, O), (N-3685: $CH_{2}COONHCH_{3}$, 3,4-diF-Ph, O, O), (N-3685: $CH_{2}COONHCH_{3}$), (N-3685 5-Br-thiophene-2-yl, O, O), (N-3686: CH₂COONHCH₃, 3,4-diBr-Ph, O, O), (N-3687: CH₂COONHCH₃, 4-CF₃-Ph, O, O), (N-3688: $CH_2COONHCH_3$, 3-CI-Ph, O, O), (N-3689: $CH_2COONHCH_3$, 3-Br-Ph, O, O), (N-3690: $CH_2COONHCH_3$, 3-F-Ph, O, O), (N-3691: CH₂CH₂Cl, 4-F-Ph, O, O), (N-3692: CH₂CH₂Cl, 4-Br-Ph, O, O), (N-3693: CH₂CH₂Cl, 5-Clthiophene-2-yl, O, O), (N-3694: CH_2CH_2CI , 3,4-diF-Ph, O, O), (N-3695: CH_2CH_2CI , 5-Br-thiophene-2-yl, O, O), (N-3696: CH_2CH_2CI , 5-Br-thiophene-2-yl, O, O), (N-3696: CH_2CI , 5-Br-thiophene-2-yl, O, O) $3696: \mathsf{CH_2CH_2CI}, \ 3, 4-\mathsf{diBr-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3697}: \ \mathsf{CH_2CH_2CI}, \ 4-\mathsf{CF_3-Ph}, \ \mathsf{0}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ (\mathsf{N-3698}: \ \mathsf{CH_2CH_2CI}, \ 3-\mathsf{CI-Ph}, \ \mathsf{O}, \ \mathsf{O}), \ \mathsf{O})$ 3699: CH₂CH₂CI, 3-Br-Ph, O, O), (N-3700: CH₂CH₂CI, 3-F-Ph, O, O), (N-3701: 4-NH₂-Ph, H, S, S), (N-3702: 4-N(Ac) H-Ph, H, S, S), (N-3703: 4-OH-Ph, H, S, S), (N-3704: 3,4-di(OH)₂-Ph, H, S, S), (N-3705: 3,4-di(NH₂)-Ph, H, S, S), (N-3706: 3:4-[N(Ac)H]₂-Ph, H, S, S), (N-3707: 4-SH-Ph, H, S, S), (N-3708: 4-SMe-Ph, H, S, S), (N-3709: 3,4-diBr-Ph, H, S, S), (N-3710: 4-N(Me)H-Ph, H, S, S), $(N-3711: 4-N(Me)_2-Ph, H, S, S)$, $(N-3712: 4-N(Me)_3^+-Ph, H, S, S)$, $(N-3713: 4-N(Me)_3+Ph, H, S, S)$ 4-Et-Ph, H, S, S), (N-3714: 4-iPr-Ph, H, S, S), (N-3715: 4-nPr-Ph, H, S, S), (N-3716: 4-nBu-Ph, H, S, S), (N-3717: 4-iBu-Ph, H, S, S), (N-3718: 3,4-diMe-Ph, H, S, S), (N-3719: 1,3-Benzodioxole-5-yl, H, S, S), (N-3720: N-Me-pyridinium-4-yl, H, S, S), (N-3721: N-Me-pyridinium-3-yl, H, S, S), (N-3722: 5-Me-Pyridine-2-yl, H, S, S), (N-3723: 2-Pyrazinyl, H, S, S), (N-3724: 3-Pyrrolyl, H, S, S), (N-3725: 1-Me-pyrrole-3-yl, H, S, S), (N-3726: Pyridine N-oxide-4-yl, H, S, S), (N-3727: Pyridine N-oxide-3-yl, H, S, S), (N-3728: 6-OH-pyridine-3-yl, H, S, S), (N-3729: 6-SH-pyridine-3-yl, H, S, S), (N-3729: 6-SH-pyri

3730: 1-Ac-pyrrole-3-yl, H, S, S), (N-3731: 4-CF₃-Ph, H, S, S), (N-3732: 4-CN-Ph, H, S, S), (N-3733: 4-CHO-Ph, H, S, S), (N-3734: 3-Cl-Ph, H, S, S), (N-3735: 3-Br-Ph, H, S, S), (N-3736: 3-F-Ph, H, S, S), (N-3737: 3-I-Ph, H, S, S), (N-3738: 4-I-Ph, H, S, S), (N-3739: 4-OCF3-Ph, H, S, S), (N-3740: 3,4-dil-Ph, H, S, S), (N-3741: Indole-6-yl, H, S, S), (N-3742: 1-Ac-indole-6-yl, H, S, S), (N-3743: 1-Me-indole-6-yl, H, S, S), (N-3744: 4-(1-Imidazolyl)-Ph, H, S, S), (N-3745: 4-Morphorino-Ph, H, S, S), (N-3746: 4-(1-Piperazinyl)-Ph, H, S, S), (N-3747: 2:5-diMe-thiophene-3-yl, H, S, S), (N-3746: 4-(1-Piperazinyl)-Ph, H, S, S), (N-3747: 2:5-diMe-thiophene-3-yl, H, S, S), (N-3746: 4-(1-Piperazinyl)-Ph, H, S, S), (N-3747: 2:5-diMe-thiophene-3-yl, H, S, S), (N-3748: 4-(1-Piperazinyl)-Ph, H, S, S), (N-3748: 4-(1-Piperazinyl)-Ph, H, S, S), (N-3747: 2:5-diMe-thiophene-3-yl, H, S, S), (N-3748: 4-(1-Piperazinyl)-Ph, H, S, S), (N-3747: 2:5-diMe-thiophene-3-yl, H, S, S), (N-3748: 4-(1-Piperazinyl)-Ph, H, S, 3748: 2-Furyl, H, S, S), (N-3749: 5-Me-furan-2-yl, H, S, S), (N-3750: 5-Me-furan-2-yl, H, S, S), (N-3751: 2-Thiazolyl, H, S, S), (N-3752: 1:4-Benzodioxin-6-yl, H, S, S), (N-3753: Benzo[b]furan-2-yl, H, S, S), (N-3754: 4-NH2CH2-Ph, H, S, S), (N-3755: 4-N(Me)HCH₂-Ph, H, S, S), (N-3756: 4-N(Me)₂CH₂-Ph, H, S, S), (N-3757: 6-Cl-pyridine-3-yl, H, S, S), (N-3758: 5,6-diCl-pyridine-3-yl, H, S, S), (N-3759: 5-Cl-pyridine-2-yl, H, S, S), (N-3760: 4:5-diCl-pyridine-2-yl, H, S, S), (N-3761: 4-CICH₂-Bn, H, S, S), (N-3762: Bn, H, S, S), (N-3763: 4-CI-Bn, H, S, S), (N-3764: 4-Br-Bn, H, S, S) 3765: 4-F-Bn, H, S, S), (N-3766: 3,4-diCl-Bn, H, S, S), (N-3767: 3,4-diBr-Bn, H, S, S), (N-3768: 3,4-diF-Bn, H, S, S), (N-3769: 4-Cl-Bz, H, S, S), (N-3770: 3,4-diCl-Bz, H, S, S), (N-3771: 4-Br-Bz, H, S, S), (N-3772: 3,4-diBr-Bz, H, S, S), (N-3773: 4-F-Bz, H, S, S), (N-3774: 3,4-diF-Bz, H, S, S), (N-3775: 4-NH₂-Ph, H, S, O), (N-3776: 4-N(Ac)H-Ph, H, S, O), (N-3777: 4-OH-Ph, H, S, O), (N-3778: 3,4-di(OH)₂-Ph, H, S, O), (N-3779: 3,4-di(NH₂)-Ph, H, S, O), (N-3780: 3: 4-[N(Ac)H]₂-Ph, H, S, O), (N-3781: 4-SH-Ph, H, S, O), (N-3782: 4-SMe-Ph, H, S, O), (N-3783: 3,4-diBr-Ph, H, S, O), (N-3784: 4-N(Me)H-Ph, H, S, O), (N-3785: 4-N(Me)₂-Ph, H, S, O), (N-3786: 4-N(Me)₃+Ph, H, S, O), (N-3787: 4-Et-Ph, H, S, O), (N-3788: 4-iPr-Ph, H, S, O), (N-3789: 4-nPr-Ph, H, S, O), (N-3790: 4-nBu-Ph, H, S, O), (N-3791: 4-iBu-Ph, H, S, O), (N-3791: 4-iBu-Ph, H, S, O), (N-3788: 4-iPr-Ph, H, S, O), (N Ph, H, S, O), (N-3792: 3,4-diMe-Ph, H, S, O), (N-3793: 1,3-B.enzodioxole-5-yl, H, S, O), (N-3794: N-Me-pyridinium-4-yl, H, S, O), (N-3795: N-Me-pyridinium-3-yl, H, S, O), (N-3796: 5-Me-Pyridine-2-yl, H, S, O), (N-3797: 2-Pyrazinyl, H, S, O), (N-3798: 3-Pyrrolyl, H, S, O), (N-3799: 1-Me-pyrrole-3-yl, H, S, O), (N-3800: Pyridine N-oxide-4-yl, H, S, O), (N-3801: Pyridine N-oxide-3-yl, H, S, O), (N-3802: 6-OH-pyridine-3-yl, H, S, O), (N-3803: 6-SH-pyridine-3-yl, H, S, O), (N-3804: 1-Ac-pyrrole-3-yl, H, S, O), (N-3805: 4-CF₃-Ph, H, S, O), (N-3806: 4-CN-Ph, H, S, O), (N-3807: 4-CHO-Ph, H, S, O), (N-3808: 3-Cl-Ph, H, S, O), (N-3809: 3-Br-Ph, H, S, O), (N-3810: 3-F-Ph, H, S, O), (N-3811: 3-l-Ph, H, S, O), (N-3812: 4-I-Ph, H, S, O), (N-3813: 4-OCF₃-Ph, H, S, O), (N-3814: 3,4-dil-Ph, H, S, O), (N-3815: Indole-6-yl, H, S, O), (N-3816: 1-Ac-indole-6-yl, H, S, O), (N-3817: 1-Me-indole-6-yl, H, S, O), (N-3818: 4-(1-Imidazolyl)-Ph, H, S, O), (N-3819: 4-Morphorino-Ph, H, S, O), (N-3820: 4-(1-Piperazinyl)-Ph, H, S, O), (N-3821: 2:5-diMe-thiophene-3-yl, H, S, O), (N-3822: 2-Furyl, H, S, O), (N-3823: 5-Me-furan-2-yl, H, S, O), (N-3824: 5-Me-furan-2-yl, H, S, O), (N-3825: 2-Thiazolyl, H, S, O), (N-3826: 1:4-Benzodioxin-6-yl, H, S, O), (N-3827: Benzo[b]furan-2-yl, H, S, O), (N-3828: 4-NH₂CH₂-Ph, H, S, O), (N-3829: 4-N(Me)HCH₂-Ph, H, S, O), (N-3830: 4-N(Me)₂CH₂-Ph, H, S, O), (N-3831: 6-Cl-pyridine-3-yl, H, S, O), (N-3832: 5,6-diCl-pyridine-3-yl, H, S, O), (N-3833: 5-Cl-pyridine-2-yl, H, S, O), (N-3834: 4:5-diCl-pyridine-2-yl, H, S, O), (N-3835: 4-CICH₂-Bn, H, S, O), (N-3836: Bn, H, S, O), (N-3837: 4-CI-Bn, H, S, O), (N-3838: 4-Br-Bn, H, S, O), (N-3839: 4-F-Bn, H, S, O), (N-3840: 3,4-diCl-Bn, H, S, O), (N-3841: 3,4-diBr-Bn, H, S, O), (N-3842: 3,4-diF-Bn, H, S, O), (N-3843: 4-Cl-Bz, H, S, O), (N-3844: 3,4-diCl-Bz, H, S, O), (N-3845: 4-Br-Bz, H, S, O), (N-3846: 3,4-diBr-Bz, H, S, O), (N-3847: 4-F-Bz, H, S, O), (N-3848: 3,4-diF-Bz, H, S, O), (N-3849: 4-NO₂-Bn, H, S, O), (N-3850: 4-CN-Bn, H, 35 S, O)

Test Example 1

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Isolation and purification of Thrombopoietin (TPO)

[0103] Human TPO (hTPO) and murine TPO (mTPO) were purchased from R&D Systems.

Test Example 2 The increasing effect in vitro of the megakaryocyte colonies with the compound (A-1), (B-17), and (C-1)

[0104] We examined the ability of the compound in promoting differentiation of human hematopoietic progenitor cells into mature megakaryocytes. Human bone marrow cells (2.2 X 10⁵ cells) were plated in 3-cm dishes and cultured in methylcellulose in Iscove's Modified Dulbecco's medium in the presence of 1% of the compound (A-1, B-17, C-1) dissolved in 10% ethanol. After incubation at 37°C for 7 days in the 5% CO₂ incubator, the megakaryocyte colonies were counted. The result is shown in Fig. 1.

Test Example 3 The thrombopoietic activity of the compound (B-17)

[0105] The TPO dependent BaF/hTPOR cell line which was established by introducing human TPO receptor (hTPOR) into BaF-B03 cells according to Collins et al (J. Cell. Physiol., 137:293-298 (1988)) was used to test the throm-bopoietic activity of the present compound (B-17). The DNA sequences and encoded peptide sequences for human hTPOR have been described by Vigon et al (Proc. Natl. Acad. Sci. USA, 89:5640-5644 (1992)). TPO dose not have any ability to support proliferation of interlukin-3 dependent parental cell line BaF-B03. BAF/hTPOR cells were maintained in RPMI medium and WEHI-3B conditioned medium as a source of murine interleukin-3 (IL-3). These cells were

washed and resuspended in RPMI medium without a source of murine IL-3 and seeded into each well of 96-well microtiter plates at a density of 5 X10⁴ cells per well in the absence or presence of various concentration of hTPO or the present compound. After incubation at 37°C for 20 hours in the 5% CO₂ incubator, 10% WST-1 reagent (Takara Biomedicals, Japan) was added to each wells and the cells were further incubated for 4 hours. The absorbance at 450 nm was measured and the result is shown in Fig. 2. Effect of the present compound on the growth of the parental cell line BaF-B03 not expressing TPOR is shown in Fig. 3. Effect of the present compound on the growth of the BaF-B03 expressing murine TPOR is shown in Fig. 4. Table 24 exemplifies the ED₅₀ for tested compounds of the present invention, wherein the ED₅₀ is the half concentration of the concentration showing the maximum thrombopoietic activity

Table 24

Compound No.	ED ₅₀ (μΜ)	Compound No.	ED ₅₀ (μM)	Compound No.	ED ₅₀ (μΜ)
A-1	0.012	A-32	0.077	A-73	0.070
A-2	0.058	A-37	0.027	B-1	0.071
A-3	0.017	A-38	0.047	B-2	0.011
A-4	0.036	A-42	0.072	B-3	0.047
A-5	0.022	A-43	0.073	B-4	0.037
A-6 ⁻	0.045	A-49	0.035	B-5	0.047
A-7	0.060	A-50	0.026	B-6	0.072
A-11	0.031	A-53	0.023	B-14	0.023
A-12	0.011	A-56	0.096	B-15	0.077
A-13	0.021	A-59	0.084	B-16	0.020
A-14	0.015	A-61	0.069	B-17	0.030
A-15	0.026	A-63	0.016	⁻ B-18	0.016
A-16	0.049	A-64	0.047	B-21	0.084
A-20	0.029	A-67	0.050	C-1	0.068
A-21	0.041	A-70	0.020	E-2	0.062
A-25	0.099	A-71	0.080	H-5	0.047
A-26	0.072	A-72	0.035		

Test Example 4 The compound(B-17)-Induced signal transduction via hTPOR

[0106] Drachman et al (J. Biol. Chem, 270: 4979-4982 (1995)) reported that TPO induced tyrosine phosphorylation of Jak2, Shc, and c-Mpl. To compare the signaling pathway of TPO and the compound of the present invention, we analyzed the tyrosine phosphorylation of signal transducers by stimulation of the compound according to the method reported by Drachman. Briefly, BaF/hTPOR cells suspended in the RPMI medium (1X10⁷ cells/ml) without WEHI-3B were incubated for 4 hours at 37°C. 25 ng/ml of TPO or 200 nM of the compound (B-17) was added to cells and incubated for 10 min at 37°C. After the cells were washed twice with PBS then lysed in a buffer composed of 1% Triton X-100. After the sample were spun in a centrifuge and the supernatant were immunoprecipitated by using antibodies against several proteins related to intracellular signal transduction. Immune complexes were separated by SDS-polyacrylamide gel electrophoresis. Protein was electrophoretically transferred to nitorocellulose sheets and tyrosine phosphorylated protein was detected by anti-phosphotyrosine antibody. Results were summarized in Table 25.

Table 25

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 Vehicle
 Compound (B-17)
 TPO

 Jak1

 Jak2
 +
 +

 Jak3

Table 25 (continued)

	Vehicle	Compound (B-17)	TPO
Tyk2	-	+	+
STAT1	-	-	•
STAT3	-	+	+
STAT5	-	+	+
STAT6	-	-	•
Mpl	-	+	+
Shc	-	+	+
Cbl	-	+	+
Vav	-	+	+
Ship	-	· -	•
SHPTP2	-	+	+
PI3K	-	-	-
PLC ₇ 1	-	+	+
MAPK	-	+	+
SAPK	-	+	+
р38МАРК		+	+

As shown in Fig.1, addition of the compounds of the present invention induced forming megakaryocyte colonies and the number of colonies increased depending on the concentration of the compounds. This result revealed that the compounds of the present invention induced the differentiation of human bone marrow cells and produce megakaryocytes having ability of producing platelet.

The compound supported the proliferation of TPO-dependent BaF/hTPOR in a dose-dependent manner as shown in Fig.2. Parental BaF cells bearing no TPOR was not induced the proliferation by compounds as shown in Fig. 3. BaF/mTPOR expressing murine TPOR was not induced the proliferation by compounds as shown in Fig. 4. These results suggest that the compound of the present invention exert the thrombopoietic activity by interacting with hTPOR because it is active only in cells expressing hTPOR.

As shown in Table 25, the compound induced phosphorylation of following the same intracellular signal transducing molecules as TPO did: Jak2, Tyk2, STAT3, STATS, Shc, Vav, SHPTP2, MpI, PLC γ 1, CbI, MAPK, SAPK, and p38MAPK. Therefore, the compounds elicit thrombopoietic activity by stimulating the signal transduction pathways identical to those of TPO.

Formulation example

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Formulation example 1

[0107] Granules are prepared using the following ingredients.

Ingredients	The compound represented by the formula (I)	10 mg
	Lactose	700 mg
	Corn starch	274 mg
	HPC-L	16 mg
		1000 mg

[0108] The compound represented by the formula (I) and lactose are made pass through a 60 mesh sieve. Corn starch is made pass through a 120 mesh sieve. They are mixed by a twin shell blender. An aqueous solution of HPC-L (low mucosity hydroxypropylcellulose) is added to the mixture and the resulting mixture is kneaded, granulated (by the extrusion with pore size 0.5 to 1 mm mesh), and dried. The dried granules thus obtained are sieved by a swing sieve

(12/60 mesh) to yield the granules.

Formulation 2

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[0109] Powders for filling capsules are prepared using the following ingredients.

Ingredients	The compound represented by the formula (I)	10 mg
	Lactose	79 mg
	Corn starch	10 mg
	Magnesium stearate	1 mg
		100 mg

[0110] The compound represented by the formula (I) and lactose are made pass through a 60 mesh sieve. Corn starch is made pass through a 120 mesh sieve. These ingredients and magnesium stearate are mixed by a twin shell blender. 100 mg of the 10-fold trituration is filled into a No. 5 hard gelatin capsule.

Formulation 3

[0111] Granules for filling capsules are prepared using the following ingredients.

Ingredients	The compound represented by the formula (I)	15 mg
	Lactose	90 mg
	Corn starch	42 mg
	HPC-L	3 mg
		150 mg

[0112] The compound represented by the formula (I) and lactose are made pass through a 60 mesh sieve. Corn starch is made pass through a 120 mesh sieve. After mixing them, an aqueous solution of HPC-L is added to the mixture and the resulting mixture is kneaded, granulated, and dried. After the dried granules are lubricated, 150 mg of that are filled into a No. 4 hard gelatin capsule.

Formulation 4

[0113] Tablets are prepared using the following ingredients.

Ingredients	The compound represented by the formula (I)	· 10 mg
	Lactose	90 mg
	Microcrystal cellulose	30 mg
	CMC-Na	15 mg
	Magnesium stearate	5 mg
		150 mg

The compound represented by the formula (I), lactose, microcrystal cellulose, and CMC-Na (carboxymethylcellulose sodium salt) are made pass through a 60 mesh sieve and then mixed. The resulting mixture is mixed with magnesium stearate to obtain the mixed powder for the tablet formulation. The mixed powder is compressed to yield tablets of 150 mg.

Industrial Applicability

[0114] The compounds of the present invention have thrombopoietin receptor agonism and are useful as the treating or preventing agent for hemopathy accompanied with unusual count of platelet, for example, thrombocytopenia and the like

Claims

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 A pharmaceutical composition exhibiting thrombopoietin agonism which contains as an active ingredient a compound of the formula (I):

$$X^1-Y^1-Z^1$$

$$A^1$$
(I)

wherein X¹ is optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, optionally substituted heteroarylalkyl, or optionally substituted non-aromatic heterocyclic group;

Y¹ is -NR^CO-(CH₂) $_{0.2}$ -, -NR^CO-(CH₂) $_{0.2}$ -W-, -NR^CO-CH=CH-, -W-(CH₂) $_{1.5}$ -NR^CO-(CH₂) $_{0.2}$ -, -CONR^-(CH₂) $_{0.2}$ -, -(CH₂) $_{0.5}$ -, NR^-SO₂-(CH₂) $_{0.5}$ -, -(CH₂) $_{0.5}$ -, -NR^-CO-NR^-, -NR^-CO-NR^-, -NR^-CS-NR^-, -N=C(-SR^-)-NR^-, -NR^-CO-, -NR^-CO-

wherein R^A is each independently a hydrogen atom, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heteroaryl, or optionally substituted heteroarylalkyl, R^F is a hydrogen atom or optionally substituted aryl, W is an oxygen atom or a sulfur atom;

 Z^1 is optionally substituted arylene, optionally substituted heteroarylene, optionally substituted non-aromatic heterocycle-diyl, or optionally substituted cycloalkyl-diyl;

A¹ is a ring represented by the formula:

$$R^1$$
 R^2
 $Q \rightarrow R^3$
 R^3
 $CH_2)m$

wherein R¹ and R² are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R³ and R⁴ are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R⁵ is a hydrogen atom or lower alkyl; Q and V are each independently -O-, -S-, -NR^B- (wherein R^B is a hydrogen atom or lower alkyl), or -CH₂-; m is 1, 2, or 3; a broken line (---) represents the presence or absence of a bond,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

 A pharmaceutical composition exhibiting thrombopoietin agonism which contains a compound of claim 1, wherein X¹ is optionally substituted 5-member heteroaryl or a group represented by the formula:

wherein E is $-(CH_2)_{1,3^-}$, $-O-CH_2^-$, or $-S-CH_2^-$; R^6 and R^7 are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl.

3. A pharmaceutical composition exhibiting thrombopoietin agonism which contains a compound of claim 1, wherein X¹ is a group represented by the formula:

wherein E is - $(CH_2)_{1-3}$ -, -O- CH_2 -, or -S- CH_2 -; R⁶ and R⁷ are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl; R⁸ is a hydrogen atom or lower alkyl.

- 4. A pharmaceutical composition of any one of claims 1 to 3, wherein Y1 is -NHCO-, -CONH-, -NHCH2-, or -NHSO2-.
- A pharmaceutical composition of any one of claims 1 to 4, wherein Z¹ is 1,4-phenylene.
 - 6. A pharmaceutical composition of any one of claims 1 to 6, wherein A¹ is a ring represented by the formula:

wherein R⁸ is a hydrogen atom or lower alkyl; M is -S-, -O-, -N(R^c)-, or -CH₂- (wherein R^c is a hydrogen atom or lower alkyl); T is an oxygen atom or a sulfur atom.

- A pharmaceutical composition of any one of claims 1 to 6, wherein the broken line represents the presence of a bond.
 - 8. A pharmaceutical composition of any one of claims 1 to 7, which is for treating or preventing hemopathy.
- 95. A pharmaceutical composition of any one of claims 1 to 7, which is a platelet production modifier.
 - 10. Use of a compound of any one of claims 1 to 7 for preparation of a pharmaceutical composition for treating hemopathy.
- 40 11. A method for treating hemopathy of a mammal, including a human, which comprises administration to said mammal of a compound of any one of claims 1 to 7 in a pharmaceutically effective amount.
 - 12. A compound represented by the formula (II)

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$$X^2-Y^2-Z^2$$
 (II)

wherein X² is optionally substituted 5-member heteroaryl or a group represented by the formula:

wherein E is $-(CH_2)_{1,3^-}$, $-O-CH_2^-$, or $-S-CH_2^-$; R^6 and R^7 are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl;

wherein R^G is each independently a hydrogen atom or optionally substituted lower alkyl, R^F is a hydrogen atom or optionally substituted aryl, W is an oxygen atom or a sulfur atom;

 Z^2 is optionally substituted phenylene, optionally substituted 2,5-pyridine-diyl, optionally substituted 2,5-thiophene-diyl, or optionally substituted 2,5-furan-diyl;

A² is a ring represented by the formula:

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$$R^1$$
 R^2
 $N-R^5$
 $CH_2)m$

wherein R¹ and R² are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R³ and R⁴ are both hydrogen atoms or taken together may form an oxygen atom or a sulfur atom; R⁵ is a hydrogen atom or lower alkyl; Q and V are each independently -O-, -S-, -NR^B- (wherein R^B is a hydrogen atom or lower

alkyl), or -CH₂-; m is 1, 2, or 3; a broken line (---) represents the presence or absence of a bond, provided that X² is not oxazole,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

13. A compound of claim 12, wherein X² is a group represented by the formula:

wherein E is $-(CH_2)_{1-3^-}$, $-O-CH_2^-$, or $-S-CH_2^-$; R^6 and R^7 are each independently a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, optionally substituted aminocarbonyl, optionally substituted thienyl, or optionally substituted phenyl; R^8 is a hydrogen atom or lower alkyl,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

14. A compound of claim 12, wherein X² is a group represented by the formula:

$$R^{10}$$
 R^{10}
 R^{10}
 R^{10}
 R^{10}
 R^{10}
 R^{10}
 R^{11}
 R^{10}
 R^{10}

wherein E is as defined in claim 12;

R⁹ is a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, or optionally substituted aminocarbonyl;

R¹⁰ and R¹¹ are each independently a hydrogen atom, halogen, carboxy, lower alkyloxycarbonyl, optionally substituted amino, or optionally substituted amino,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

- 15. A compound of any one of claims 12 to 14, wherein Y² is -NHCO-, CONH-, -NHCH₂-, or -NHSO₂-, its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.
- 16. A compound of any one of claims 12 to 15, wherein Z² is 1,4-phenylene, its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.
 - 17. A compound of any one of claims 12 to 16, wherein A² is a ring represented by the formula:

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wherein R⁸ is a hydrogen atom or lower alkyl; M is -S-, -O-, -N(R°)-, or -CH₂- (wherein R^c is a hydrogen atom or lower alkyl); T is an oxygen atom or a sulfur atom,

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its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

- **18.** A compound of any one of claims 12 to 17, wherein the broken line represents the presence of a bond, its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.
- 19. A compound represented by the formula III-A:

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wherein, R⁹ is a hydrogen atom, optionally substituted lower alkyl, carboxy, lower alkyloxycarbonyl, or optionally substituted aminocarbonyl;

 R^{10} and R^{11} are each independently a hydrogen atom, halogen, carboxy, lower alkyloxycarbonyl, optionally substituted amino;

Y3 is -NHCO- or -CONH-;

A³ is a ring represented by the formula:

wherein R^8 is a hydrogen atom or lower alkyl; M is -S-, -O-, -N(R^c)-, or -CH₂- (wherein R^c is a hydrogen atom or lower alkyl); T is an oxygen atom or a sulfur atom,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

20. A compound represented by the formula III-B:

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wherein R9, R10, R11, Y3, and A3 ring are as defined in claim 19,

its prodrug, or their pharmaceutically acceptable salt, or solvate thereof.

- 21. A pharmaceutical composition containing a compound of any one of claims 12 to 20 as an active ingredient.
- 22. A pharmaceutical composition which contains as an active ingredient a compound of any one of claims 12 to 20 for exhibiting thrombopoietin agonism.
 - 23. An agent for treating or preventing hemopathy which contains as the active ingredient a compound of any one of claims 12 to 20.
 - 24. A pharmaceutical composition containing as the active ingredient a compound of any one of claims 12 to 20, which is a platelet production modifier.
- **25.** Use of a compound of any one of claims 12 to 20 for preparation of a pharmaceutical composition for treating hemopathy.
 - 26. A method for treating hemopathy of a mammal, including a human, which comprises administration to said mammal of a compound of any one of claims 12 to 20 in a pharmaceutically effective amount.

Figure 1

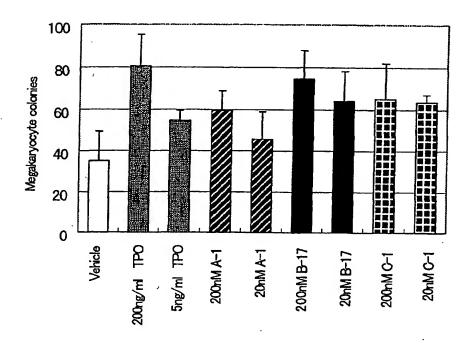


Figure 2

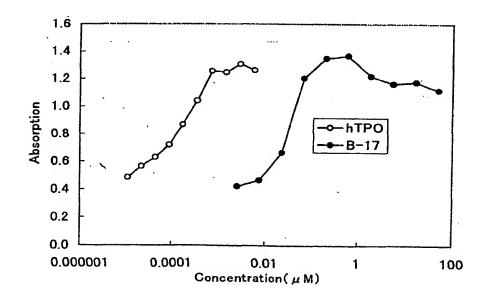


Figure 3

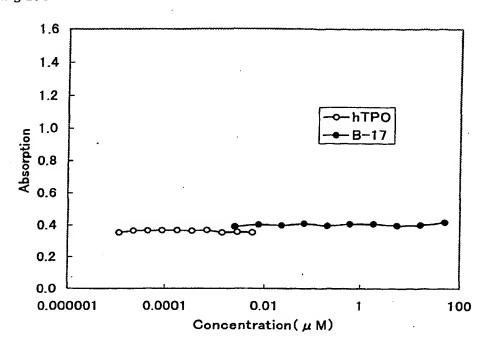
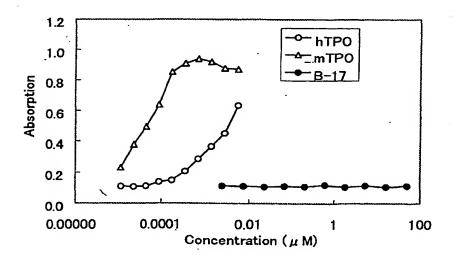


Figure 4



INTERNATIONAL SEARCH REPORT

International application No.

		1	PCT/J	P00/04909
Int.	SIFICATION OF SUBJECT MATTER .Cl ⁷ C07D277/34, 277/36, 277/46 A61K31/426, 31/425, 31/427 A61P7/04, 43/00 to International Patent Classification (IPC) or to both as	7, 31/429, 31/4	4439, 31/47	
B. FIELD	S SEARCHED			
Int.	A61K31/425-31/429, 31/4439 A61P7/04, 43/00	417/12, 417/1	14, 513/04, /4725,	
	tion searched other than minimum documentation to the			
CAPI	leta base consulted during the international search (main LUS (STM) , REGISTRY (STM) , MEDLINE (S SIS (STM) , BIOTECHABS (STM) , WPI (DIA	TN) , EMBASE (STN		rch terms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document, with indication, where ap	propriate, of the relevan	it passages	Relevant to claim No.
x	EP, 389699, A1 (PFIZER INC.), 03 October, 1990 (03.10.90), Claims; example			1-8,10, 12-23,25
A	© WO, 89/08652, A & AU, 8931 © DK, 8901087, A & PT, 8992 © JP, 1-299289, A & 2A, 9004 © FI, 9004413, A & NO, 9003 © IL, 89481, A & US, 5330	2, A 413, A 863, A		9,24
X A	WO, 97/32863, A1 (TORII PHARMAC 12 September, 1997 (12.09.97), Claims; example & AU, 9722313, A	CBUTICAL CO., 1	LTD.),	1-8,10,12, 13,15-18, 21-23,25 9,14,19,20,
x A	EP, 848004, Al (SHIONOGI & CO., 17 June, 1998 (17.06.98), Claims; example & NO, 97/05135, Al & AU, 9665			1,2,4-7,12, 15-18,21,22,25 2,8-10,13, 14,19,20,23
	& CN, 1197458, A & BR, 9609			,,,
	r documents are listed in the continuation of Box C.	See patent family		maticus I filing data or
"A" docume conside "E" earlier o date "L" docume	ent defining the general state of the set which is not red to be of particular relevance document but published on or after the international filing ent which may throw doubts on priority claim(s) or which is establish the publication dute of another chains or other	printity date and as understand the printing "X" document of partic considered novel o sten when the docu	t published after the international filing date or and not in conflict with the application but cited to principle or theory meterlying the invention articular relevance; the claimed invention cannot be well or cannot be considered to involve an inventive document is taken alone articular relevance; the claimed invention cannot be	
special reason (as specified) "O" document referring to an onal disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "A" considered to involve an inventive step when the combined with one or more other such documents ocombination being obvious to a person skilled in document member of the same patent family				when the document is documents, such skilled in the art natily
	actual completion of the international search october, 2000 (04.10.00)	Date of mailing of the 17 October	international sear c, 2000 (17	
	wiling address of the ISA/ nese Patent Office	Authorized officer		
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Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP00/04909

		PCI/J	P00/04909	
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.	
	& US, 5955616, A & MX, 9800804, A & KR, 99036041, A	<u></u>		
X A	WO, 98/33797, A1 (Shionogi & Co., Ltd.), 06 August, 1998 (06.08.98), Claims; example		1,2,4-7,12, 15-18,21,22,25 3,8-10,13,	
	& AU, 9855775, A & NO, 9903706, A & EP, 976748, A1 & BR, 9807132, A & CN, 1251587, A		14,19,20,23	
x	HULIN, B. et al. Novel Thiazolidine-2,4-diones as Potent Buglycemic Agents. J. Med. Chem. 25, 1992, 1853-1864		1,2,4-8,10, 12,15-18, 21-23,25	
A			3,9,13,14, 19,20	
x A	JP, 7-173143, A (Wakamoto Pharmaceutics Co. 11 July, 1995 (11.07.95), Claims (Family: none)	, Ltd.),	1,4-8,10 2,3,9,12-23,25	
x	JP, 9-301963, A (KYORIN PHARMACEUTICAL Co., 25 November, 1997 (25.11.97),	Ltd.),	1,4-6,8,10 2,3,7,9,	
A	Claims (Family: none)		12-23,25	
X A	JP, 4-99770, A (Misshin Flour Milling Co., 1 31 March, 1992 (31.03.92), Claims; example (Family: none)	Ltd.),	1,5-8,10 2-4,9,12-23,25	
X A	EBISAWA, M. et al. NOVEL THIAZOLODINEDIONE D WITH RETINOID SYNERGISTIC ACTIVITY. Biol. Ph 21(5), 1998, 547-549		1,4-8,10 2,3,9,12-23,25	
A	JP, 11-1477, A (HOKURIKU SBIYAKU CO., LTD.), 06 January, 1999 (06.01.99) (Family: none)		1-10,12-23,25	
A	SUGIMOTO, H. et al., "Metabolic Changes of Prostaglandins in Diabetic Rats and Restoration by Insulin Therapy", Fukuoka Acta Med. 73(2), 1982, pp.76-83		1-10,12-23,25	
A	BP, 837052, A1 (Shionogi & Co., Ltd.), 22 April, 1998 (22.04.98), Claims; Table 1a & WO, 97/00853, A1 & AU, 9661370, A & NO, 9705994, A & NZ, 310559, A & CN, 119315, A & BR, 9608498, A & KR, 99028261, A		1-23,25	
PX	SENO, K. et al., *Pyrrolidine Inhibitors of Human Phospholipase A ₂ *, J. Med. Chem. 43(6), 2000, pp	nCytosolic .1041-1044	1,2,4-7,12,15- 18,21,22,25	

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP00/04909

Box 1 Observations where certain claims were found unsearchable (Continuation	of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
•				
1. 🔀 Claims Nos.: 11,26				
because they relate to subject matter not required to be searched by this Authority, namely:				
Claims 11 and 26 pertain to methods for treatment of the human body by therapy				
(PCT Article 17(2)(a)(i) and Rule 39.1(iv)).				
· · · · · · · · · · · · · · · · · · ·	·			
2. 🔀 Claims Nos.: 1-10,12-25				
because they relate to parts of the international application that do not comply a extent that no meaningful international search can be carried out, specifically:	with the prescribed requirements to such an			
(see extra sheet)				
(see extra sheet)				
	•			
Claims Nos.: because they are dependent claims and are not drafted in accordance with the st	econd and third sentences of Rule 6.4(a)			
Bax II Observations where unity of invention is lacking (Continuation of Item 2 of				
This International Searching Authority found multiple inventions in this international app				
The management of the state of				
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1. As all required additional search fees were timely paid by the applicant, this int	senstional count remove crusers all contribution			
claims.	erranorar seneri reput covers an seneranc			
 As all searchable claims could be searched without effort justifying an addition of any additional fee. 	al fee, this Authority did not invite payment			
 As only some of the required additional search fees were timely paid by the app only those claims for which fees were paid, specifically claims Nos.; 	Nicant, this international search report covers			
only date caning in which ices were paid, specifically caning 1905;				
4. No required additional search fees were timely paid by the applicant. Conseque				
search report is restricted to the invention first mentioned in the claims; it is con	vered by claims Nos.:			
Remark on Protest The additional search fees were accompanied by the appli	cant's protest.			
No protest accompanied the payment of additional search				

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1992)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/04909

Continuation of Box No. I-2 of continuation of first sheet

Concerning the inventions of claims 1 to 10 and 12 to 25, the chemical structure common to the compounds of the general formula (I) contained as the active ingredient is a molety composed of ring A¹, substituent methylene on the ring, and substituent Z¹ on the methylene.

As described above, ring A¹ is a determinant important to the common molety.

As described above, ring ${\tt A}^1$ is a determinant important to the common moiety. However, the description does not contain any specific disclosure on compounds wherein ring ${\tt A}^1$ is 5-isothiazolyl, and it is non-obvious to a person skilled in the art that the ring structures defined as to ${\tt A}^1$ have common pharmacological properties. Thus, the inventions are remarkably unclear in this respect, so that such compounds are not considered as being subject matters of this International Search.

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